Nokia Customer Care
NHL-12 Series Transceivers

2 - Parts Lists & Component Layouts

COMPANY CONFIDENTIAL
Copyright © 2005 Nokia. All Rights Reserved.

[This page intentionally blank]

Copyright © 2005 Nokia. All Rights Reserved.

Table of Contents

Page No

Exploded View of Nokia NHL-12 5

Mechanical parts list 6
Variant parts 7

Parts List for NHL-12 Engine Module 8

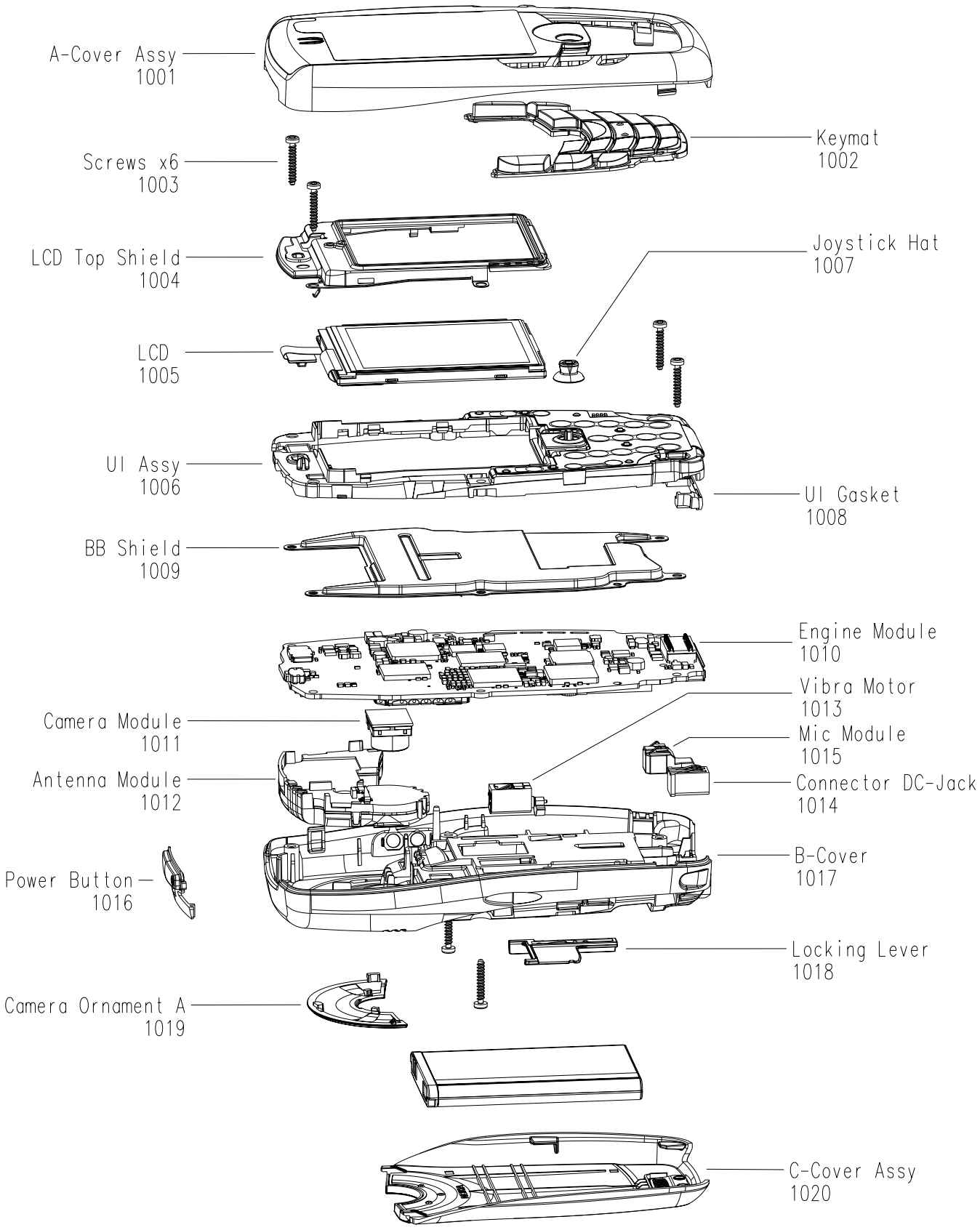
Version hl9_14 8
Component layout diagram v. hl9_14 - Bot. 29
Component layout diagram v. hl9_14 - Top 30
Version hl9_15 31
Component layout diagram v. hl9_15 - Top. 50
Component layout diagram v. hl9_15 - Bot. 51

Copyright © 2005 Nokia. All Rights Reserved.

[This page intentionally blank]

Copyright © 2005 Nokia. All Rights Reserved.

1. Exploded View of Nokia NHL-12



Copyright © 2005 Nokia. All Rights Reserved.

Mechanical parts list

ITEM REF.	QTY	PART NO	PART NAME
1001	1	XXXXXXX	A-COVER ASSY
1002	1	XXXXXXX	KEYMAT
1003	6	6150137	SCREWS 1.8x11 TX 6 PLUS
1004	1	9517300	LCD TOP SHIELD
1005	1	485M066	LCD
1006	1	9498011	UI MODULE ASSY
1007	1	9453380	JOYSTICK HAT
-	1	-	UI SUPPORT FRAME
1008	1	9460634	UI GASKET
1009	1	9517266	BB SHIELD
1010	1	-	ENGINE MODULE
1011	1	4858011	VGA CAMERA MODULE
-	1	9459057	B-COVER ASSY
1012	1	0660309	ANTENNA MODULE
1013	1	6800063	VIBRA MOTOR
1014	1	5400243	CONNECTOR DC-JACK
1015	1	5140265	MIC MODULE
1016	1	9453163	POWER BUTTON
1017	1	9459295	B-COVER
1018	1	9453164	LOCKING LEVER
1019	1	XXXXXXX	CAMERA ORNAMENT A
1020	1	XXXXXXX	C-COVER ASSY

Copyright © 2005 Nokia. All Rights Reserved.

Variant parts

ITEM REF.	QTY	PART NO	PART NAME
1001	1	9459055	A-COVER ASSY (SILVER GREY)
1001	1	9459563	A-COVER ASSY (TITANIUM BLUE)
1002	1	9790992	KEYMAT (SILVER GREY WIS)
1002	1	9791401	KEYMAT (TITANIUM BLUE WIS)
1002	1	9791402	KEYMAT (SILVER GREY)
1002	1	9791400	KEYMAT (TITANIUM BLUE)
1020	1	9459056	C-COVER ASSY (SILVER GREY)
1020	1	9459801	C-COVER ASSY (TITANIUM BLUE)
1019	1	9459293	CAMERA ORNAMENT A (SILVER GREY)
1019	1	9459969	CAMERA ORNAMENT A (TITANIUM BLUE)

Copyright © 2005 Nokia. All Rights Reserved.

2. Parts List for NHL-12 Engine Module

Version hl9_14

Item	Code	Side	X	Y	Type	Description and value			
A1000	9511166	Bot.	H	5	SHIELD	DMD10393	~	~	~
A1001	9517267	Bot.	C	7	SHIELD_1	RF-SHIELD 1	~	~	~
A1002	9517268	Bot.	G	3	SHIELD_2	RF-SHIELD 2	~	~	~
B2200	4510219	Top	L	4	CRYSTAL	32.768KHZ		~	~
B4800	4510423	Top	I	9	CRYSTAL	10PF	12MHz	~	~
C2000	2320481	Bot.	S	5	0603C	Chipcap	1u0	6.3V	110%
C2001	2320620	Bot.	S	5	0402C	Chipcap X7R	10n	16V	5%
C2002	2320481	Bot.	S	5	0603C	Chipcap X5R	1u0	6.3V	10%
C2003	2320544	Bot.	T	5	0402C	Chipcap NP0	22p	50V	5%
C2004	2320805	Bot.	T	6	0402C	Chipcap X5R	100n	10V	10%
C2005	2316001	Bot.	S	7	0603C	Chipcap X5R	2u2	6V3	10%
C2006	2320481	Bot.	S	6	0603C	Chipcap X5R	1u0	6.3V	10%
C2007	2320620	Bot.	S	6	0402C	Chipcap X7R	10n	16V	5%
C2008	2320596	Top	T	8	0402C	Chipcap X7R	3n3	50V	5%
C2009	2320596	Top	T	8	0402C	Chipcap X7R	3n3	50V	5%
C2010	2320596	Top	T	8	0402C	Chipcap X7R	3n3	50V	5%
C2011	2320596	Top	T	8	0402C	Chipcap X7R	3n3	50V	5%
C2012	2320596	Top	T	8	0402C	Chipcap X7R	3n3	50V	5%
C2013	2320596	Top	T	8	0402C	Chipcap X7R	3n3	50V	5%
C2020	2320546	Bot.	H	8	0402C	Chipcap NP0	27p	50V	5%
C2026	2320584	Top	S	4	0402C	Chipcap X7R	1n0	50V	5%
C2030	2320544	Top	S	4	0402C	Chipcap NP0	22p	50V	5%
C2038	2320546	Bot.	F	9	0402C	Chipcap NP0	27p	50V	5%
C2040	2320564	Top	T	8	0402C	Chipcap NP0	150p	50V	5%
C2041	2320564	Top	T	8	0402C	Chipcap NP0	150p	50V	5%
C2042	2320564	Top	T	8	0402C	Chipcap NP0	150p	50V	5%
C2043	2320564	Top	T	8	0402C	Chipcap NP0	150p	50V	5%
C2070	2320481	Bot.	E	8	0603C	Chipcap X5R	1u0	6.3V	10%

Copyright © 2005 Nokia. All Rights Reserved.

Item	Code	Side	X	Y	Type	Description and value			
C2100	2320620	Top	B	4	0402C	Chipcap X7R	10n	16V	5%
C2101	2320620	Top	B	4	0402C	Chipcap X7R	10n	16V	5%
C2102	2320544	Top	D	3	0402C	Chipcap NP0	22p	50V	5%
C2103	2320544	Top	D	3	0402C	Chipcap NP0	22p	50V	5%
C2106	2320805	Top	J	10	0402C	Chipcap X5R	100n	10V	10%
C2107	2320805	Top	J	8	0402C	Chipcap X5R	100n	10V	10%
C2108	2320805	Top	J	9	0402C	Chipcap X5R	100n	10V	10%
C2109	2320481	Top	J	10	0603C	Chipcap X5R	1u0	6.3V	10%
C2122	2310037	Top	M	3	0805C	Chipcap X5R	10U	6V3	20%
C2123	2320783	Top	L	3	0402C	Chipcap X7R	33n	10V	10%
C2124	2320783	Top	L	3	0402C	Chipcap X7R	33n	10V	10%
C2125	2320584	Top	L	4	0402C	Chipcap X7R	1n0	50V	5%
C2126	2320584	Top	L	3	0402C	Chipcap X7R	1n0	50V	5%
C2133	2320544	Bot.	S	8	0402C	Chipcap NP0	22p	50V	5%
C2135	2320805	Top	L	5	0402C	Chipcap X5R	100n	10V	10%
C2138	2320805	Top	M	4	0402C	Chipcap X5R	100n	10V	10%
C2140	2320805	Top	M	3	0402C	Chipcap X5R	100n	10V	10%
C2141	2310037	Top	L	3	0805C	Chipcap X5R	10U	6V3	20%
C2142	2320783	Top	L	3	0402C	Chipcap X7R	33n	10V	10%
C2143	2320783	Top	L	2	0402C	Chipcap X7R	33n	10V	10%
C2150	2320805	Top	K	9	0402C	Chipcap X5R	100n	10V	10%
C2151	2310037	Top	K	10	0805C	Chipcap X5R	10U	6V3	20%
C2180	2320805	Top	L	7	0402C	Chipcap X5R	100n	10V	10%
C2181	2320805	Top	K	7	0402C	Chipcap X5R	100n	10V	10%
C2182	2320805	Top	J	9	0402C	Chipcap X5R	100n	10V	10%
C2183	2320805	Top	J	9	0402C	Chipcap X5R	100n	10V	10%
C2200	2320481	Top	J	4	0603C	Chipcap X5R	1u0	6.3V	10%
C2201	2320778	Top	J	5	0402C	Chipcap X7R	10n	16V	10%
C2202	2320481	Top	K	5	0603C	Chipcap X5R	1u0	6.3V	10%
C2203	2320481	Top	K	4	0603C	Chipcap X5R	1u0	6.3V	10%
C2204	2320481	Top	L	2	0603C	Chipcap X5R	1u0	6.3V	10%
C2205	2320481	Top	I	4	0603C	Chipcap X5R	1u0	6.3V	10%

Copyright © 2005 Nokia. All Rights Reserved.

Item	Code	Side	X	Y	Type	Description and value			
C2206	2320536	Top	K	4	0402C	Chipcap NP0	10p	50V	5%
C2207	2320536	Top	L	4	0402C	Chipcap NP0	10p	50V	5%
C2208	2320481	Top	M	4	0603C	Chipcap X5R	1u0	6.3V	10%
C2209	2320481	Top	M	4	0603C	Chipcap X5R	1u0	6.3V	10%
C2210	2320481	Top	L	4	0603C	Chipcap X5R	1u0	6.3V	10%
C2211	2320481	Top	K	4	0603C	Chipcap X5R	1u0	6.3V	10%
C2212	2320481	Top	L	4	0603C	Chipcap X5R	1u0	6.3V	10%
C2213	2320481	Top	M	4	0603C	Chipcap X5R	1u0	6.3V	10%
C2214	2320481	Top	L	2	0603C	Chipcap X5R	1u0	6.3V	10%
C2215	2320805	Top	K	1	0402C	Chipcap X5R	100n	10V	10%
C2216	2320805	Top	K	1	0402C	Chipcap X5R	100n	10V	10%
C2217	2320805	Top	I	2	0402C	Chipcap X5R	100n	10V	10%
C2218	2320805	Top	I	2	0402C	Chipcap X5R	100n	10V	10%
C2219	2320481	Top	I	2	0603C	Chipcap X5R	1u0	6.3V	10%
C2220	2320481	Top	I	3	0603C	Chipcap X5R	1u0	6.3V	10%
C2221	2320481	Top	I	2	0603C	Chipcap X5R	1u0	6.3V	10%
C2222	2320481	Top	I	2	0603C	Chipcap X5R	1u0	6.3V	10%
C2223	2320481	Top	I	2	0603C	Chipcap X5R	1u0	6.3V	10%
C2224	2320778	Top	M	2	0402C	Chipcap X7R	10n	16V	10%
C2225	2320778	Top	L	1	0402C	Chipcap X7R	10n	16V	10%
C2226	2320584	Top	M	2	0402C	Chipcap X7R	1n0	50V	5%
C2227	2320584	Top	M	2	0402C	Chipcap X7R	1n0	50V	5%
C2228	2320481	Top	H	3	0603C	Chipcap X5R	1u0	6.3V	10%
C2229	2320481	Top	H	4	0603C	Chipcap X5R	1u0	6.3V	10%
C2230	2320481	Top	I	4	0603C	Chipcap X5R	1u0	6.3V	10%
C2231	2320481	Top	I	3	0603C	Chipcap X5R	1u0	6.3V	10%
C2232	2320481	Top	H	3	0603C	Chipcap X5R	1u0	6.3V	10%
C2233	2320481	Top	I	3	0603C	Chipcap X5R	1u0	6.3V	10%
C2270	2320805	Top	I	5	0402C	Chipcap X5R	100n	10V	10%
C2271	2320805	Top	I	5	0402C	Chipcap X5R	100n	10V	10%
C2272	2320481	Top	H	4	0603C	Chipcap X5R	1u0	6.3V	10%
C2273	2320481	Top	I	4	0603C	Chipcap X5R	1u0	6.3V	10%

Copyright © 2005 Nokia. All Rights Reserved.

Item	Code	Side	X	Y	Type	Description and value			
C2274	2320481	Top	H	4	0603C	Chipcap X5R	1u0	6.3V	10%
C2275	2320481	Top	M	2	0603C	Chipcap X5R	1u0	6.3V	10%
C2276	2320481	Top	J	5	0603C	Chipcap X5R	1u0	6.3V	10%
C2277	2320481	Top	H	3	0603C	Chipcap X5R	1u0	6.3V	10%
C2330	2320481	Top	I	3	0603C	Chipcap X5R	1u0	6.3V	10%
C2331	2320481	Top	J	4	0603C	Chipcap X5R	1u0	6.3V	10%
C2332	2320481	Top	I	4	0603C	Chipcap X5R	1u0	6.3V	10%
C2333	2320481	Top	I	4	0603C	Chipcap X5R	1u0	6.3V	10%
C2334	2320481	Top	I	3	0603C	Chipcap X5R	1u0	6.3V	10%
C2335	2320481	Top	M	2	0603C	Chipcap X5R	1u0	6.3V	10%
C2401	2320620	Bot.	K	1	0402C	Chipcap X7R	10n	16V	5%
C2700	2320805	Top	M	8	0402C	Chipcap X5R	100n	10V	10%
C2880	2320778	Top	O	4	0402C	Chipcap X7R	10n	16V	10%
C2881	2320805	Top	O	1	0402C	Chipcap X5R	100n	10V	10%
C2882	2320778	Top	M	4	0402C	Chipcap X7R	10n	16V	10%
C2883	2320778	Top	M	2	0402C	Chipcap X7R	10n	16V	10%
C2884	2320778	Top	N	1	0402C	Chipcap X7R	10n	16V	10%
C2885	2320778	Top	N	4	0402C	Chipcap X7R	10n	16V	10%
C2900	2320560	Top	I	2	0402C	Chipcap NP0	100p	50V	5%
C2901	2320560	Top	H	2	0402C	Chipcap NP0	100p	50V	5%
C2902	2320560	Top	H	2	0402C	Chipcap NP0	100p	50V	5%
C3030	2320778	Top	N	6	0402C	Chipcap X7R	10n	16V	10%
C3031	2320805	Top	O	4	0402C	Chipcap X5R	100n	10V	10%
C3032	2320779	Top	N	5	0603_BLM	Chipcap X7R	100n	16V	10%
C4100	2320805	Top	L	7	0402C	Chipcap X5R	100n	10V	10%
C4101	2320544	Top	L	7	0402C	Chipcap NP0	22p	50V	5%
C4102	2320805	Top	K	8	0402C	Chipcap X5R	100n	10V	10%
C4103	2310037	Top	K	8	0805C	Chipcap X5R	10U	6V3	20%
C4104	2320805	Top	K	7	0402C	Chipcap X5R	100n	10V	10%
C4105	2320760	Top	K	7	0402C	Chipcap X7R	4n7	25V	10%
C4200	2316001	Top	Q	6	0603C	Chipcap X5R	2u2	6V3	10%

Copyright © 2005 Nokia. All Rights Reserved.

Item	Code	Side	X	Y	Type	Description and value			
C4201	2320783	Top	R	6	0402C	Chipcap X7R	33n	10V	10%
C4202	2316001	Top	Q	6	0603C	Chipcap X5R	2u2	6V3	10%
C4203	2320778	Top	H	10	0402C	Chipcap X7R	10n	16V	10%
C4204	2320778	Top	R	3	0402C	Chipcap X7R	10n	16V	10%
C4206	2320805	Top	G	11	0402C	Chipcap X5R	100n	10V	10%
C4207	2320805	Top	Q	4	0402C	Chipcap X5R	100n	10V	10%
C4208	2310037	Top	G	10	0805C	Chipcap X5R	10U	6V3	10%
C4209	2310037	Top	Q	4	0805C	Chipcap X5R	10U	6V3	20%
C4211	2320778	Top	Q	4	0402C	Chipcap X7R	10n	16V	10%
C4212	2310037	Top	Q	3	0805C	Chipcap X5R	10U	6V3	20%
C4213	2310037	Top	Q	4	0805C	Chipcap X5R	10U	6V3	20%
C4214	2310037	Top	G	10	0805C	Chipcap X5R	10U	6V3	20%
C4215	2310037	Top	H	10	0805C	Chipcap X5R	10U	6V3	20%
C4410	2320620	Top	D	9	0402C	Chipcap X7R	10n	16V	5%
C4411	2320620	Top	D	9	0402C	Chipcap X7R	10n	16V	5%
C4412	2320560	Top	D	9	0402C	Chipcap NP0	100p	50V	5%
C4413	2320576	Top	D	8	0402C	Chipcap X7R	470p	50V	5%
C4414	2320620	Top	D	9	0402C	Chipcap X7R	10n	16V	5%
C4450	2320805	Bot.	G	10	0402C	Chipcap X5R	100n	10V	10%
C4451	2310037	Bot.	G	10	0805C	Chipcap X5R	10U	6V3	20%
C4452	2320137	Bot.	H	10	0603C	Chipcap X5R	470n	10V	10%
C4453	2320544	Bot.	H	10	0402C	Chipcap NP0	22p	50V	5%
C4454	2320805	Top	F	6	0402C	Chipcap X5R	100n	10V	10%
C4455	2320805	Top	E	5	0402C	Chipcap X5R	100n	10V	10%
C4456	2310037	Top	S	8	0805C	Chipcap X5R	10U	6V3	20%
C4457	2320481	Top	S	7	0603C	Chipcap X5R	1u0	6.3V	10%
C4458	2312257	Top	R	8	0805C	Chipcap X7R	330n	16V	10%
C4459	2312257	Top	R	8	0805C	Chipcap X7R	330n	16V	10%
C4460	2310037	Top	S	7	0805C	Chipcap X5R	10U	6V3	20%
C4461	2320620	Top	D	8	0402C	Chipcap X7R	10n	16V	5%
C4462	2320536	Top	C	9	0402C	Chipcap NP0	10p	50V	5%
C4463	2320805	Top	B	8	0402C	Chipcap X5R	100n	10V	10%

Copyright © 2005 Nokia. All Rights Reserved.

Item	Code	Side	X	Y	Type	Description and value			
C4464	2320536	Top	B	7	0402C	Chipcap NP0	10p	50V	5%
C4465	2312243	Top	E	8	0805C	Chipcap X5R	4u7	6V3	10%
C4466	2320552	Bot.	F	10	0402C	Chipcap NP0	47p	50V	5%
C4467	2312243	Bot.	F	10	0805C	Chipcap X5R	4u7	6V3	10%
C4468	2312411	Top	F	10	1206_BLM	Chipcap X5R	1u0	25V	20%
C4469	2312411	Top	E	10	1206_BLM	Chipcap X5R	1u0	25V	20%
C4470	2310037	Top	F	6	0805C	Chipcap X5R	10U	6V3	20%
C4471	2310037	Top	E	6	0805C	Chipcap X5R	10U	6V3	20%
C4472	2320554	Bot.	G	7	0402C	Chipcap NP0	56p	50V	5%
C4474	2310037	Top	C	7	0805C	Chipcap X5R	10U	6V3	normal,-20%,20%
C4800	2320548	Top	I	9	0402C	Chipcap NP0	33p	50V	5%
C4801	2320548	Top	I	9	0402C	Chipcap NP0	33p	50V	5%
C4802	2320540	Top	H	9	0402C	Chipcap NP0	15p	50V	5%
C4803	2320805	Top	F	7	0402C	Chipcap X5R	100n	10V	10%
C4804	2320805	Top	I	8	0402C	Chipcap X5R	100n	10V	10%
C4805	2320481	Top	I	8	0603C	Chipcap X5R	1u0	6.3V	10%
C4806	2310037	Top	E	9	0805C	Chipcap X5R	10U	6V3	normal,-20%,20%
C4807	2320805	Top	F	9	0402C	Chipcap X5R	100n	10V	10%
C4808	2320805	Top	I	8	0402C	Chipcap X5R	100n	10V	10%
C4809	2320778	Top	I	9	0402C	Chipcap X7R	10n	16V	10%
C4810	2320805	Top	H	6	0402C	Chipcap X5R	100n	10V	10%
C4811	2320778	Top	H	9	0402C	Chipcap X7R	10n	16V	10%
C4812	2320805	Top	I	7	0402C	Chipcap X5R	100n	10V	10%
C4813	2315257	Top	G	6	0405_2_P0.65	CHIP ARRAY X5R	2x10n	16V	10%
C4814	2315257	Top	F	8	0405_2_P0.65	CHIP ARRAY X5R	2x10n	16V	10%
C4815	2315257	Top	G	6	0405_2_P0.65	CHIP ARRAY X5R	2x10n	16V	10%
C4816	2315257	Top	I	8	0405_2_P0.65	CHIP ARRAY X5R	2x10n	16V	10%

Copyright © 2005 Nokia. All Rights Reserved.

Item	Code	Side	X	Y	Type	Description and value			
C4817	2315257	Top	I	7	0405_2_P0.65	CHIP ARRAY X5R	2x10n	16V	10%
C4818	2315257	Top	G	9	0405_2_P0.65	CHIP ARRAY	2x10n	16V	10%
C4819	2320778	Top	E	7	0402C	Chipcap X7R	10n	16V	10%
C5000	2320805	Top	K	8	0402C	Chipcap X5R	100n	10V	10%
C5001	2320805	Top	L	7	0402C	Chipcap X5R	100n	10V	10%
C5002	2320805	Top	K	7	0402C	Chipcap X5R	100n	10V	10%
C5003	2320805	Top	L	6	0402C	Chipcap X5R	100n	10V	10%
C5083	2320805	Top	G	3	0402C	Chipcap X5R	100n	10V	10%
C5084	2320778	Top	G	3	0402C	Chipcap X7R	10n	16V	10%
C5085	2320778	Top	H	5	0402C	Chipcap X7R	10n	16V	10%
C5086	2320805	Top	H	6	0402C	Chipcap X5R	100n	10V	10%
C5087	2320778	Top	H	5	0402C	Chipcap X7R	10n	16V	10%
C5088	2320778	Top	E	5	0402C	Chipcap X7R	10n	16V	10%
C5089	2320778	Top	E	5	0402C	Chipcap X7R	10n	16V	10%
C5200	2320481	Top	P	5	0603C	Chipcap X5R	1u0	6.3V	10%
C5201	2320481	Top	Q	5	0603C	Chipcap X5R	1u0	6.3V	10%
C5202	2320481	Top	Q	5	0603C	Chipcap X5R	1u0	6.3V	10%
C5203	2320620	Top	R	5	0402C	Chipcap X7R	10n	16V	5%
C6031	2320778	Top	O	9	0402C	Chipcap X7R	10n	16V	10%
C6033	2320778	Top	N	8	0402C	Chipcap X7R	10n	16V	10%
C6035	2320778	Top	N	9	0402C	Chipcap X7R	10n	16V	10%
C6036	2320481	Top	N	8	0603C	Chipcap X5R	1u0	6.3V	10%
C6038	2320778	Top	I	10	0402C	Chipcap X7R	10n	16V	10%
C6043	2320778	Top	O	9	0402C	Chipcap X7R	10n	16V	10%
C6044	2320540	Top	P	8	0402C	Chipcap NP0	15p	50V	5%
C6045	2320540	Top	P	8	0402C	Chipcap NP0	15p	50V	5%
C6046	2320520	Top	P	8	0402C	Chipcap NP0	2p2	50V	0.25pF
C6047	2316001	Top	N	8	0603C	Chipcap X5R	2u2	6V3	10%
C6048	2320524	Top	O	9	0402C	Chipcap NP0	3p3	50V	0.25pF
C6049	2320520	Top	P	8	0402C	Chipcap NP0	2p2	50V	0.25pF

Copyright © 2005 Nokia. All Rights Reserved.

Item	Code	Side	X	Y	Type	Description and value			
C7000	2320584	Bot.	D	7	0402C	Chipcap X7R	1n0	50V	5%
C7001	2320584	Bot.	A	8	0402C	Chipcap X7R	1n0	50V	5%
C7002	2320584	Bot.	C	6	0402C	Chipcap X7R	1n0	50V	5%
C7003	2310045	Bot.	B	9	0402C_GRM36	Chipcap X5R	68n	10V	10%
C7004	2310045	Bot.	D	9	0402C_GRM36	Chipcap X5R	68n	10V	10%
C7005	2320546	Bot.	C	9	0402C	Chipcap NP0	27p	50V	5%
C7006	2320546	Bot.	C	9	0402C	Chipcap NP0	27p	50V	5%
C7007	2320518	Bot.	B	9	0402C	Chipcap NP0	1p8	50V	0.25pF
C7008	2320516	Bot.	C	9	0402C	Chipcap NP0	1p5	50V	0.25pF
C7009	2320540	Bot.	D	9	0402C	Chipcap NP0	15p	50V	5%
C7010	2320540	Bot.	D	9	0402C	Chipcap NP0	15p	50V	5%
C7011	2320518	Bot.	D	9	0402C	Chipcap +-0.25pF NP0	1p8	50V	0.25pF
C7013	2320584	Bot.	B	9	0402C	Chipcap X7R	1n0	50V	5%
C7014	2320584	Bot.	D	9	0402C	Chipcap X7R	1n0	50V	5%
C7016	2611745	Bot.	D	10	TANT	7.3X4.3X2.0	150u	10V	,20%
C7017	2320546	Bot.	C	10	0402C	Chipcap NP0	27p	50V	5%
C7018	2312243	Bot.	C	10	0805C	Chipcap X5R	4u7	6V3	10%
C7020	2320540	Bot.	C	9	0402C	Chipcap NP0	15p	50V	5%
C7021	2320538	Bot.	D	7	0402C	Chipcap NP0	12p	50V	5%
C7022	2320554	Bot.	C	9	0402C	Chipcap NP0	56p	50V	5%
C7023	2320560	Bot.	C	9	0402C	Chipcap NP0	100p	50V	5%
C7024	2320538	Bot.	C	9	0402C	Chipcap NP0	12p	50V	5%
C7025	2320560	Bot.	A	7	0402C	Chipcap NP0	100p	50V	5%
C7026	2320584	Bot.	C	6	0402C	Chipcap X7R	1n0	50V	5%
C7027	2320554	Bot.	D	6	0402C	Chipcap NP0	56p	50V	5%
C7028	2320508	Bot.	C	6	0402C	Chipcap NP0	1p0	50V	0.25pF
C7029	2320508	Bot.	C	6	0402C	Chipcap NP0	1p0	50V	0.25pF
C7100	2320544	Bot.	A	5	0402C	Chipcap NP0	22p	50V	5%
C7101	2320560	Bot.	B	4	0402C	Chipcap NP0	100p	50V	5%
C7102	2320560	Bot.	A	6	0402C	Chipcap NP0	100p	50V	5%

Copyright © 2005 Nokia. All Rights Reserved.

Item	Code	Side	X	Y	Type	Description and value			
C7103	2320552	Bot.	A	5	0402C	Chipcap NP0	47p	50V	5%
C7108	2320520	Bot.	C	5	0402C	Chipcap +-0.25pF NP0	2p2	50V	0.25pF
C7109	2320805	Bot.	D	6	0402C	Chipcap X5R	100n	10V	10%
C7110	2320540	Bot.	D	6	0402C	Chipcap NP0	15p	50V	5%
C7111	2320514	Bot.	D	5	0402C	Chipcap NP0	1p2	50V	0.25pF
C7112	2320560	Bot.	F	2	0402C	Chipcap NP0	100p	50V	5%
C7113	2320560	Bot.	F	2	0402C	Chipcap NP0	100p	50V	5%
C7200	2320491	Bot.	I	3	0603C	Chipcap X7R	220n	10V	10%
C7201	2320552	Bot.	I	4	0402C	Chipcap NP0	47p	50V	5%
C7202	2320560	Bot.	E	3	0402C	Chipcap NP0	100p	50V	5%
C7204	2320584	Bot.	I	6	0402C	Chipcap X7R	1n0	50V	5%
C7205	2320536	Bot.	I	6	0402C	Chipcap NP0	10p	50V	5%
C7206	2320564	Bot.	H	6	0402C	Chipcap NP0	150p	50V	5%
C7207	2322023	Bot.	G	5	0603C	Chipcap NP0	2n2	16V	5%
C7208	2321013	Bot.	G	6	0402C	Chipcap NP0	270p	25V	5%
C7300	2320538	Bot.	H	3	0402C	Chipcap NP0	12p	50V	5%
C7301	2320568	Bot.	H	3	0402C	Chipcap X7R	220p	50V	5%
C7302	2320805	Bot.	H	1	0402C	Chipcap X5R	100n	10V	10%
C7303	2320554	Bot.	F	1	0402C	Chipcap NP0	56p	50V	5%
C7304	2320536	Bot.	H	2	0402C	Chipcap NP0	10p	50V	5%
C7305	2320584	Bot.	H	2	0402C	Chipcap X7R	1n0	50V	5%
C7306	2320546	Bot.	G	3	0402C	Chipcap NP0	27p	50V	5%
C7307	2320576	Bot.	F	1	0402C	Chipcap X7R	470p	50V	5%
C7308	2320576	Bot.	G	1	0402C	Chipcap X7R	470p	50V	5%
C7309	2320576	Bot.	G	1	0402C	Chipcap X7R	470p	50V	5%
C7310	2320576	Bot.	G	1	0402C	Chipcap X7R	470p	50V	5%
C7311	2320805	Bot.	G	1	0402C	Chipcap X5R	100n	10V	10%
C7312	2320560	Bot.	G	4	0402C	Chipcap NP0	100p	50V	5%
C7313	2320584	Bot.	H	2	0402C	Chipcap X7R	1n0	50V	5%
C7314	2320558	Bot.	H	1	0402C	Chipcap NP0	82p	50V	5%
C7315	2320552	Bot.	H	3	0402C	Chipcap NP0	47p	50V	5%
C7316	2320552	Bot.	H	2	0402C	Chipcap NP0	47p	50V	5%

Copyright © 2005 Nokia. All Rights Reserved.

Item	Code	Side	X	Y	Type	Description and value			
C7318	2320554	Bot.	E	3	0402C	Chipcap NP0	56p	50V	5%
C7319	2320604	Bot.	F	3	0402C	Chipcap NP0	18p	50V	5%
C7320	2320546	Bot.	E	3	0402C	Chipcap NP0	27p	50V	5%
C7323	2320604	Bot.	F	4	0402C	Chipcap NP0	18p	50V	5%
C7324	2320554	Bot.	F	4	0402C	Chipcap NP0	56p	50V	5%
C7325	2320907	Bot.	G	3	0402C	Chipcap NP0 HQ	0p7	16V	0.1p
C7326	2320598	Bot.	F	3	0402C	Chipcap X7R	3n9	50V	5%
C7327	2322023	Bot.	E	3	0603C	Chipcap NP0	2n2	16V	5%
C7329	2320592	Bot.	F	3	0402C	Chipcap X7R	2n2	50V	5%
C7330	2320592	Bot.	F	4	0402C	Chipcap X7R	2n2	50V	5%
D2200	4370959	Top	K	3	uBGA168	UEMK_EDGE WDENA TO25 TFBGA168	~	~	~
D2800	4375019	Top	N	3	uBGA144_ CC	UPP8M V3.5 F751542I UBGA144 C035	~	~	~
D3000	4341547	Top	O	5	BGA40_32 MB_54MHZ _MAX	FLASH NMP DCT4 32MBIT 54MHZ PBFREE	2Mx16	~	~
D4400	4349825	Top	D	9	US_8	NAND 2X2-INPUT 74LVC2G00 VSSOP8	~	~	~
D4402	4349817	Top	D	8	PDSO_G6	2XBUFFER 74LVC2G17 SC70-6	~	~	~
D4403	4349823	Top	D	8	PDSO_G5	OR-GATE 2INPUT 74LVC1G32 SC70-5	~	~	~
D4404	4349823	Top	D	8	PDSO_G5	OR-GATE 2INPUT 74LVC1G32 SC70-5	~	~	~
D4450	4349821	Top	D	8	PDSO_G6	2XBUFFER O/DRAIN 74LVC2G07 SC70-6	~	~	~
D4451	4341309	Bot.	F	10	SOT23L_8	DC/DC CONV 350MA TK11851 SOP8	~	~	~
D4800	4371703	Top	G	8	uBGA_289	HELEN1_V1 OMAP1510J PBGA289	~	~	~
D5000	4347027	Top	J	8	FBGA64	ADAPTER PBFREE FBGA64	~	~	~
D5001	4347171	Top	J	6	TBGA63	FLASH 32MX8 1.8V/ 1.8V TBGA63	32Mx8	~	~
D5080	4347183	Top	F	4	FBGA_54_ 11.6X10.1	SDRAM 32MX16 1.8V/ 1V8 FBGA54	32Mx16	~	~

Copyright © 2005 Nokia. All Rights Reserved.

Item	Code	Side	X	Y	Type	Description and value			
F2020	5119029	Top	U	4	0603_FUSE	SM FUSE F 1.5A 32V ROHS-FREE 0603	1.5A	~	~
G2400	4700141	Bot.	N	2	BATTER_RB414H	CELL CAPACITOR	3V3	0.01MAh	~
G7200	4510417	Bot.	H	3	NGK3138C	VCTCXO 26MHZ +-3PPM 2.7v 1.3MA GSM	26MHz	~	~
G7201	4350431	Bot.	H	5	VCO_FDK_IT_4	3296-3980MHZ FOUR 2.7V 20MA	3296-3980MHz	~	~
J7100	9510434	Bot.	A	3	M3E14601	SPRING CLIP M3E14601	~	~	~
J7101	9510434	Bot.	A	4	M3E14601	SPRING CLIP M3E14601	~	~	~
J7102	9510434	Bot.	A	3	ANT_CLIP	M3E14601 HD925	~	~	~
L2000	3203755	Bot.	T	5	0402	FERRITE BEAD	600R/100MHz	~	~
L2001	3203771	Bot.	T	6	0603_BLM	FERRITE BEAD	220R/100MHz	~	~
L2002	3203755	Bot.	T	6	0402	FERRITE BEAD	600R/100MHz	~	~
L2003	3203803	Top	T	8	0405_2_H1.0	CHIP BEAD ARRAY 2X1000R	100MHz	~	-
L2004	3203803	Top	U	8	0405_2_H1.0	CHIP BEAD ARRAY 2X1000R	100MHz	~	-
L2005	3203803	Top	U	8	0405_2_H1.0	CHIP BEAD ARRAY 2X1000R	100MHz	~	-
L2020	3203743	Top	T	4	0805_BLM21	FERRITE BEAD	42R/100MHz	~	~
L2040	3203755	Bot.	T	7	0402	FERRITE BEAD	600R/100MHz	~	~
L2100	3203803	Top	B	5	0405_2_H1.0	CHIP BEAD ARRAY 2x1000R/	100MHz	~	-
L2101	3203807	Top	C	3	0405_2_MATSU	EXC24CP221U 2X220R 0405	2x220R/100MHz	~	-
L2120	3203755	Bot.	S	7	0402	FERRITE BEAD	600R/100MHz	~	~
L2121	3203755	Bot.	S	8	0402	FERRITE BEAD	600R/100MHz	~	~
L2330	3203741	Top	I	3	0603_BLM	FERRITE BEAD	600R/100MHz	~	~

Copyright © 2005 Nokia. All Rights Reserved.

Item	Code	Side	X	Y	Type	Description and value			
L2331	3203741	Top	I	4	0603_BLM	FERRITE BEAD	600R/ 100MHz	~	~
L2332	3203741	Top	I	4	0603_BLM	FERRITE BEAD	600R/ 100MHz	~	~
L2333	3203741	Top	I	4	0603_BLM	FERRITE BEAD	600R/ 100MHz	~	~
L2334	3203741	Top	H	3	0603_BLM	FERRITE BEAD	600R/ 100MHz	~	~
L2335	3203741	Top	M	2	0603_BLM	FERRITE BEAD	600R/ 100MHz	~	~
L4100	3203755	Top	L	7	0402	FERRITE BEAD	600R/ 100MHz	~	~
L4200	3203755	Top	H	2	0402	FERRITE BEAD	600R/ 100MHz	~	~
L4201	3640139	Top	H	10	ELL4LM100 MN	CHOKE 4X4X1.8	10uH	0,69A	20%
L4202	3640139	Top	R	4	ELL4LM100 MN	CHOKE 4X4X1.8	10uH	0,69A	20%
L4205	3203723	Top	G	11	BK1608	FERRITE BEAD	68R/ 100MHz	~	~
L4450	3640149	Top	F	9	ELL4LM100 MN2	CHOKE 4X4X1.8	15uH	~	20%
L4451	3203723	Bot.	E	10	BK1608	FERRITE BEAD	68R/ 100MHz	~	~
L6030	3646239	Top	P	8	0402_ELJR F	Chip coil Q7/100M	22nH	~	10%
L6031	3646215	Top	P	8	0402_ELJR F	Chip coil Q6/100M	3n3H	~	0n3
L6032	3646215	Top	P	8	0402_ELJR F	CHIP COIL Q6/100M	3n3H	~	0n3
L6033	3646239	Top	P	9	0402_ELJR F	CHIP COIL Q7/100M	22nH	~	10%
L6034	3646239	Top	O	9	0402_ELJR F	CHIP COIL Q7/100M	22nH	~	10%
L7000	3203743	Bot.	C	10	0805_BLM21	FERR.BEAD	42R/ 100MHz	~	~
L7001	3646069	Bot.	C	9	0402L	CHIP COIL J Q23/ 800M	33nH	~	5%
L7002	3646239	Bot.	B	9	0402_ELJR F	CHIP COIL J Q7/100M	22nH	~	10%

Copyright © 2005 Nokia. All Rights Reserved.

Item	Code	Side	X	Y	Type	Description and value			
L7003	3646053	Bot.	D	9	0402L	CHIP COIL Q28/800M	4n7H	~	+-0n3
L7004	3646091	Bot.	B	6	0402L	CHIP COIL J Q27/800M	6n8H	~	5%
L7005	3646003	Bot.	D	6	0402L	CHIP COIL Q30/800M	2n2H	~	+-0n3
L7100	3646067	Bot.	F	1	0402L	CHIP COIL J Q29/800M	18nH	~	5%
L7101	3646067	Bot.	F	1	0402L	CHIP COIL J Q29/800M	18nH	~	5%
L7102	3646217	Bot.	F	2	0402_ELJRF	CHIP COIL Q7/100M	3n9H	~	+-0n3
L7103	3646217	Bot.	F	2	0402_ELJRF	CHIP COIL 3N9+-0N3 Q7/100M 0402	3n9H	~	+-,0n3
L7104	3646215	Bot.	C	5	0402_ELJRF	CHIP COIL 3N3+-0N3 Q6/100M 0402	3n3H	~	+-0n3
L7106	3646215	Bot.	D	5	0402_ELJRF	CHIP COIL 3N3+-0N3 Q6/100M 0402	3n3H	~	-+0n3
L7108	3646055	Bot.	F	2	0402L	CHIP COIL 8N2 J Q28/ 800MHZ 0402	8n2H	~	,+5%
L7300	3203755	Bot.	H	3	FERRITE_0402	FERRITE BEAD 0.6R 600R/100MHZ 0402	600R/ 100MHz	~	normal,-,-
L7301	3646221	Bot.	G	4	0402_ELJRF	CHIP COIL 4N7+-0N3 Q7/100M 0402	4n7H	~	+-0n3
L7302	3646221	Bot.	G	4	0402_ELJRF	CHIP COIL 4N7+-0N3 Q7/100M 0402	4n7H	~	+-0n3
N2000	4341703	Bot.	S	5	USMD5_1.47X1.04_H0.675	VREG LP3985ITLX-2.8 NOPB USMD5	~	3V	~
N2001	4340663	Bot.	S	6	SOT23_5_H1.45	REG 3.3V/150MA LP2985A-3.3 SOT23-5	~	3.3V	~
N2070	4341705	Bot.	E	8	USMD10_2.08X1.57_H0.675	CURRENT SENS LM3820 USMD10 PB-FREE	~	~	~
N2100	4341617	Top	J	9	USMD18_ST_NSC	AF AMP LM4855ITLX NOPB USMD18	~	~	~
N4100	4341513	Top	K	8	PBGA_N80_MIRROR	AUDIO CODEC W/AF AMP TLV320AIC23B	~	~	~
N4200	4342341	Top	Q	6	LLP_6	REG LP3981 300MA LLP-6	~	2.8V	~
N4201	4346045	Top	G	10	USMD_10_2.458X1.899	DC/DC CONV LM2208-1.57V/1.35V	~	~	~

Copyright © 2005 Nokia. All Rights Reserved.

Item	Code	Side	X	Y	Type	Description and value			
N4202	4341711	Top	Q	4	USMD10_2 .534X2.28X 0.675	DC/DC 1.8V/1.5V LM2608-1.8 USMD10	~	~	~
N4450	4341137	Top	S	8	MSOP_10	DC/DC CONV LM3353 4.1V 80MA MSOP10	~	~	~
N4800	4341781	Top	F	7	SOT23_6_ H1.45	VOLTAGE SUPERVI-SOR TPS3103E12DBV	~	MGC_ CAT,	~
N5200	4341715	Top	Q	5	USMD5_1. 47X1.04_H 0.675	VREG LP3985ITLX-3.0 NOPB USMD5	~	3V	~
N6030	4370975	Top	O	8	TFBGA84_ H1.2	BC213143A-17-RK-E4	~	~	~
N7000	4350435	Bot.	C	7	PW_AMP_ RF9219E1_ H1.8	PW AMP PF09009BN-02 850/1800/1900	~	~	~
N7300	4370949	Bot.	G	2	uBGA_108 _P0.5	HELGO73A TFBGA108	~	~	~
R2000	1430778	Bot.	S	5	0402R	Resistor 5% 63mW	10k	~	5%
R2001	1430804	Bot.	T	5	0402R	Resistor 5% 63mW	100k	~	5%
R2002	1430718	Bot.	T	5	0402R	Resistor 5% 63mW	47R	~	5%
R2003	4129001	Bot.	T	6	uBGA8_1.3 X2.0	ASIP EMIF02-USB01F2	~	~	~
R2004	1430804	Bot.	S	6	0402R	Resistor 5% 63mW	100k	~	5%
R2005	1825031	Top	T	8	0405_2	VARISTOR ARRAY VC50 0405	2XVWM 16V	~	~
R2007	4129011	Top	T	8	uBGA5	ASIP 4XESD BGA5	~	~	~
R2008	1430812	Top	K	5	0402R	Resistor 5% 63mW	220k	~	5%
R2035	1825133	Bot.	H	8	0402_VAR	CHIP VARISTOR VWM	14V/ 50V	~	-
R2036	1825133	Bot.	F	9	0402_VAR	CHIP VARISTOR	14V/ 50V	~	-
R2039	1820039	Bot.	L	4	0402_NTH5	NTC RES 2	47k	~	5%
R2044	1825133	Bot.	T	5	0402_VAR	CHIP VARISTOR VWM	14V/ 50V	~	-
R2071	1430762	Bot.	E	9	0402R	Resistor 5% 63mW	2k2	~	5%
R2072	1430762	Bot.	E	9	0402R	Resistor 5% 63mW	2k2	~	5%
R2102	1825031	Top	C	3	0405_2	VARISTOR ARRAY 2XVWM16V VC50 0405	2XVWM 16V	~	-

Copyright © 2005 Nokia. All Rights Reserved.

Item	Code	Side	X	Y	Type	Description and value			
R2104	1430764	Top	J	9	0402R	Resistor 5% 63mW	3k3	~	5%
R2105	1430726	Top	K	10	0402R	Resistor 5% 63mW	100R	~	5%
R2120	1430690	Top	L	4	0402R	Chipres 0W06 jumper 0402	0R	~	normal
R2121	1430778	Top	M	3	0402R	Resistor 5% 63mW	10k	~	5%
R2122	1430734	Top	L	3	0402R	Resistor 5% 63mW	220R	~	5%
R2124	1430754	Top	M	3	0402R	Resistor 5% 63mW	1k0	~	5%
R2126	1430754	Top	M	3	0402R	Resistor 5% 63mW	1k0	~	5%
R2127	1620105	Top	M	3	MNR02_SR	RES NETWORK 0W06 2X2K2 J 0404	2x2k2	~	5%
R2128	1430734	Top	L	3	0402R	Resistor 5% 63mW	220R	~	5%
R2129	1825031	Top	S	8	0405_2	VARISTOR ARRAY 2XVWM16V VC50 0405	2XVWM 16V	~	~
R2130	1430690	Top	L	3	0402R	Chipres 0W06 jumper 0402	0R	~	normal,-,-
R2140	4129253	Top	L	3	uBGA11_2. 15X1.65	ASIP MIC W/ESD RES+CAP+ZDI BGA11	~	~	~
R2150	1430778	Top	K	9	0402R	Resistor 5% 63mW	10k	~	5%
R2151	1430778	Top	J	9	0402R	Resistor 5% 63mW	10k	~	5%
R2152	1430770	Top	K	9	0402R	Resistor 5% 63mW	4k7	~	5%
R2153	1430770	Top	J	10	0402R	Resistor 5% 63mW	4k7	~	5%
R2175	1430700	Top	K	9	0402R	Resistor 5% 63mW	10R	~	5%
R2176	1430700	Top	K	9	0402R	Resistor 5% 63mW	10R	~	5%
R2177	1430700	Top	K	9	0402R	Resistor 5% 63mW	10R	~	5%
R2178	1430700	Top	K	9	0402R	Resistor 5% 63mW	10R	~	5%
R2200	1414605	Top	J	4	0805R_TH ERM1	CHIPRES 0W25	0R22	~	5%
R2201	1620043	Top	L	2	EXB28V	RES NETWORK 0W03 J 0804	4x100k	~	~
R2202	1430770	Top	L	2	0402R	Resistor 5% 63mW	4k7	~	5%
R2203	1430770	Top	L	2	0402R	Resistor 5% 63mW	4k7	~	5%
R2400	1430778	Top	B	4	0402R	Resistor 5% 63mW	10k	~	5%
R2401	4129011	Bot.	S	9	uBGA5	ASIP 4XESD **PB-FREE** BGA5	~	~	~

Copyright © 2005 Nokia. All Rights Reserved.

Item	Code	Side	X	Y	Type	Description and value			
R2402	4129011	Bot.	S	9	uBGA5	ASIP 4XESD **PB-FREE** BGA5	~	~	~
R2403	1825133	Top	B	4	0402_VAR	CHIP VARISTOR VWM	14V/ 50V	~	-
R2700	4129071	Top	M	8	uBGA8	ASIP EMIF03-SIM01F2 **PB-FREE**	~	~	~
R2701	1430778	Top	I	2	0402R	Resistor 5% 63mW	10k	~	5%
R2900	1430778	Top	I	2	0402R	Resistor 5% 63mW	10k	~	5%
R2901	1430778	Top	I	2	0402R	Resistor 5% 63mW	10k	~	5%
R2902	1430726	Top	H	2	0402R	Resistor 5% 63mW	100R	~	5%
R2903	1430873	Top	I	1	0402R	CHIPRES 0W06 27K F 0402	27k	~	5%
R3000	1430770	Top	N	5	0402R	Resistor 5% 63mW	4k7	~	5%
R4100	1430794	Top	K	7	0402R	Resistor 5% 63mW	39k	~	5%
R4101	1430718	Top	L	7	0402R	Resistor 5% 63mW	47R	~	5%
R4202	1430812	Top	F	11	0402R	Resistor 5% 63mW	220k	~	5%
R4401	1430734	Top	D	9	0402R	Resistor 5% 63mW	220R	~	5%
R4402	1430726	Top	D	8	0402R	Resistor 5% 63mW	100R	~	5%
R4403	1430778	Top	E	8	0402R	Resistor 5% 63mW	10k	~	5%
R4450	1430695	Bot.	G	10	0402R	CHIPRES 0W06 6R8 J 0402	6R8	~	5%
R4451	1430695	Bot.	G	10	0402R	CHIPRES 0W06 6R8 J 0402	6R8	~	5%
R4452	1430695	Bot.	G	10	0402R	CHIPRES 0W06 6R8 J 0402	6R8	~	5%
R4453	1430695	Bot.	G	10	0402R	CHIPRES 0W06 6R8 J 0402	6R8	~	5%
R4454	1430778	Top	F	8	0402R	Resistor 5% 63mW	10k	~	5%
R4455	1430786	Top	F	8	0402R	Resistor 5% 63mW	18k	~	5%
R4456	1430762	Top	F	6	0402R	Resistor 5% 63mW	2k2	~	5%
R4457	1430760	Top	F	6	0402R	Resistor 5% 63mW	1k8	~	5%
R4458	1430778	Top	C	9	0402R	Resistor 5% 63mW	10k	~	5%
R4459	1430754	Top	S	7	0402R	Resistor 5% 63mW	1k0	~	5%
R4460	1430714	Top	S	7	0402R	Resistor 5% 63mW	33R	~	5%
R4461	1430714	Top	S	7	0402R	Resistor 5% 63mW	33R	~	5%

Copyright © 2005 Nokia. All Rights Reserved.

Item	Code	Side	X	Y	Type	Description and value			
R4462	1430804	Top	R	7	0402R	Resistor 5% 63mW	100k	~	5%
R4463	1430794	Top	F	8	0402R	Resistor 5% 63mW	39k	~	5%
R4464	1430691	Bot.	E	10	0402R	CHIPRES 0W06 2R2 J 0402	2R2	~	5%
R4465	1820039	Top	D	6	0402_NTH5	NTC RES 47K J B=4050+-3% 0402	47k	~	5%
R4466	1620043	Top	F	6	EXB28V_SR	RES NETWORK J 0804	4x100k	~	5%
R4467	1430804	Top	M	7	0402R	Resistor 5% 63mW	100k	~	5%
R4468	1620057	Top	M	6	EXB28V_SR	RES NETWORK 0W03 J 0804	4x47k	~	5%
R4469	1430794	Top	M	6	0402R	Resistor 5% 63mW	39k	~	5%
R4470	1430794	Top	M	6	0402R	Resistor 5% 63mW	39k	~	5%
R4471	1430754	Top	M	6	0402R	Resistor 5% 63mW	1k0	~	5%
R4472	1430714	Bot.	F	11	0402R	Resistor 5% 63mW	33R	~	5%
R4473	1430700	Top	C	7	0402R	Resistor 5% 63mW	10R	~	5%
R4480	1430732	Bot.	G	10	0402R	Resistor 5% 63mW	180R	~	5%
R4481	1430732	Bot.	G	10	0402R	Resistor 5% 63mW	180R	~	5%
R4482	1430732	Bot.	G	10	0402R	Resistor 5% 63mW	180R	~	5%
R4490	1430681	Top	F	6	0402R	CHIPRES 0W06 4R3 J 0402	4R3	~	5%
R4491	1430681	Top	F	6	0402R	CHIPRES 0W06 4R3 J 0402	4R3	~	5%
R4800	1620105	Top	F	8	MNR02	RES NETWORK 0W06 2X2k2 J 0404	2x2k2	~	~
R4801	1430778	Top	I	6	0402R	Resistor 5% 63mW	10k	~	5%
R4802	1430804	Top	E	8	0402R	Resistor 5% 63mW	100k	~	5%
R4803	1430804	Top	G	9	0402R	Resistor 5% 63mW	100k	~	5%
R4804	1430804	Top	F	7	0402R	Resistor 5% 63mW	100k	~	5%
R4805	1430804	Top	G	9	0402R	Resistor 5% 63mW	100k	~	5%
R4806	1430700	Top	E	8	0402R	Resistor 5% 63mW	10R	~	5%
R4807	1430706	Top	G	9	0402R	Resistor 5% 63mW	15R	~	5%
R4808	1430710	Top	F	6	0402R	Resistor 5% 63mW	22R	~	5%
R5000	1430770	Top	I	6	0402R	Resistor 5% 63mW	4k7	~	5%

Copyright © 2005 Nokia. All Rights Reserved.

Item	Code	Side	X	Y	Type	Description and value			
R5200	4129101	Top	Q	6	uBGA11_1.62X2.12	ASIP EMIF04-MMC02F2**PB-FREE**	~	~	~
R5201	1430788	Top	Q	5	0402R	Resistor 5% 63mW	22k	~	5%
R5202	1430804	Top	Q	5	0402R	Resistor 5% 63mW	100k	~	5%
R5204	1430754	Top	Q	5	0402R	Resistor 5% 63mW	1k0	~	5%
R6030	1430778	Top	N	9	0402R	Resistor 5% 63mW	10k	~	5%
R6034	1430691	Top	N	7	0402R	CHIPRES 0W06 2R2 J 0402	2R2	~	5%
R6039	1430790	Top	I	10	0402R	Resistor 5% 63mW	27k	~	5%
R6040	1430740	Top	I	9	0402R	Resistor 5% 63mW	330R	~	5%
R6042	1430790	Top	I	9	0402R	Resistor 5% 63mW	27k	~	5%
R6043	1430752	Top	J	9	0402R	Resistor 5% 63mW	820R	~	5%
R6044	1430760	Top	J	9	0402R	Resistor 5% 63mW	1k8	~	5%
R7000	1430700	Bot.	D	8	0402R	Resistor 5% 63mW	10R	~	5%
R7001	1430700	Bot.	A	8	0402R	Resistor 5% 63mW	10R	~	5%
R7002	1430700	Bot.	C	6	0402R	Resistor 5% 63mW	10R	~	5%
R7003	1430714	Bot.	B	9	0402R	Resistor 5% 63mW	33R	~	5%
R7004	1430691	Bot.	B	9	0402R	CHIPRES 0W06 2R2 J 0402	2R2	~	5%
R7005	1430681	Bot.	B	9	0402R	CHIPRES 0W06 4R3 J 0402	4R3	~	5%
R7006	1430690	Bot.	D	9	0402R	Chipres 0W06 jumper 0402	0R	~	normal,-,-
R7007	1430714	Bot.	D	9	0402R	Resistor 5% 63mW	33R	~	5%
R7008	1430691	Bot.	D	9	0402R	CHIPRES 0W06 2R2 J 0402	2R2	~	5%
R7009	1430690	Bot.	A	7	0402R	Chipres 0W06 jumper 0402	0R	~	normal,-,-
R7010	1430758	Bot.	E	3	0402R	Resistor 5% 63mW	1k5	~	5%
R7011	1430690	Bot.	E	3	0402R	Chipres 0W06 jumper 0402	0R	~	normal,-,-
R7100	1430700	Bot.	D	5	0402R	Resistor 5% 63mW	10R	~	5%
R7101	1430746	Bot.	D	5	0402R	Resistor 5% 63mW	560R	~	5%
R7200	1430774	Bot.	I	3	0402R	Resistor 5% 63mW	6k8	~	5%

Copyright © 2005 Nokia. All Rights Reserved.

Item	Code	Side	X	Y	Type	Description and value			
R7201	1430693	Bot.	I	6	0402R	Chipres 0W06 5R6 J 0402	5R6	~	5%
R7202	1430754	Bot.	E	3	0402R	Resistor 5% 63mW	1k0	~	5%
R7203	1620505	Bot.	I	5	0404_RAC 10	RES NETWORK 0W04 2DB ATT 0404	436R/ 11R6	~	~
R7204	1430754	Bot.	H	6	0402R	Resistor 5% 63mW	1k0	~	5%
R7205	1430337	Bot.	G	5	0603R	CHIPRES 0W06 9K1 F	9k1	~	1%
R7300	1430770	Bot.	G	1	0402R	Resistor 5% 63mW	4k7	~	5%
R7301	1430772	Bot.	G	1	0402R	Resistor 5% 63mW	5k6	~	5%
R7303	1430690	Bot.	H	2	0402R	Chipres 0W06 jumper	0R	~	normal,-,-
R7304	1430784	Bot.	H	1	0402R	Resistor 5% 63mW	15k	~	5%
R7305	1620033	Bot.	H	3	0404_R	RES NETWORK 0W06 2X5K6 J 0404	2x5k6	~	~
R7306	1620033	Bot.	H	2	0404_R	RES NETWORK 0W06 2X5K6 J 0404	2x5k6	~	~
R7307	1430770	Bot.	E	3	0402R	Resistor 5% 63mW	4k7	~	5%
R7308	1430788	Bot.	E	3	0402R	Resistor 5% 63mW	22k	~	5%
R7309	1430770	Bot.	E	3	0402R	Resistor 5% 63mW	4k7	~	5%
R7310	1430726	Bot.	F	3	0402R	Resistor 5% 63mW	100R	~	5%
R7311	1430756	Bot.	F	3	0402R	Resistor 5% 63mW	1k2	~	5%
R7312	1430726	Bot.	F	3	0402R	Resistor 5% 63mW	100R	~	5%
S2400	5209001	Top	A	4	BUTTON_E VQPUA02	SM SW TACT SPST 12V 50MA SIDE KEY	~	~	~
T6030	4550267	Top	P	8	TRANS_LD B213	TRANSF BALUN 2400+-100MHZ	~	~	~
T7000	4550223	Bot.	D	9	TRANS_LD B15	TRANSF BALUN 1800+-100mhz 2x1.25	~	~	~
T7100	3640427	Bot.	D	5	TRANS_LD B20	BALUN TRANS 1.9GHZ+/-100MHZ	1206	~	~
T7200	4550187	Bot.	I	5	TRANS_LD B213	TRANSF BALUN 3600MHZ+-400MHZ	~	~	~
V2020	4113721	Top	T	4	CASE_457	TVS DI 1PMT16AT3 16V 175W PWRMITE	~	~	~
V4200	4211251	Top	F	10	SC_75A	MFET 2SK3019 N 30V 0.1A 7R SC-75A	~	~	~

Copyright © 2005 Nokia. All Rights Reserved.

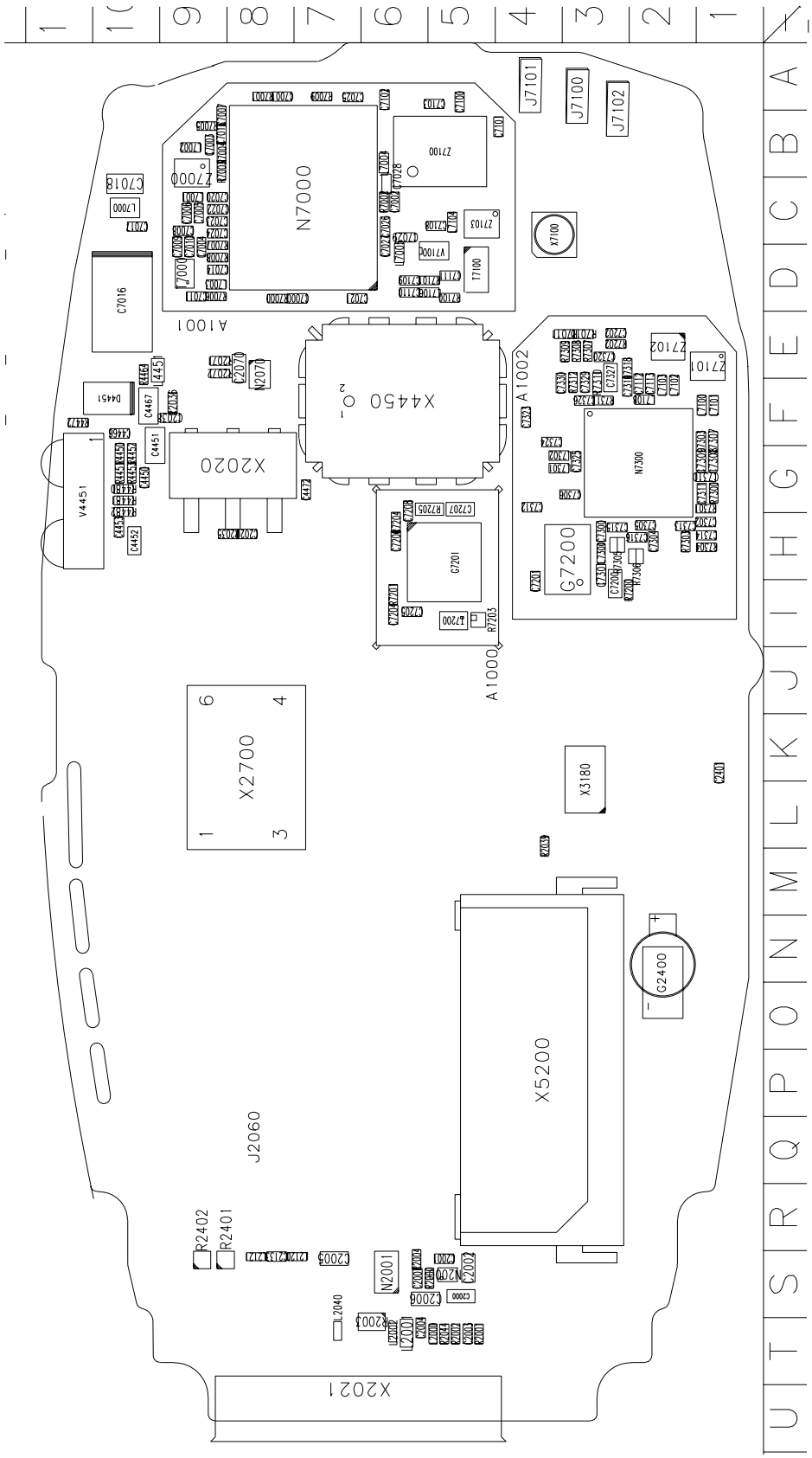
Item	Code	Side	X	Y	Type	Description and value			
V4450	4110457	Top	F	10	CASE_457	SCH DI MBRM140T3 40V 1A POWERMITE	~	~	~
V4451	4860105	Bot.	G	10	TFDU5102	IRDA TFDU5103 1M152 SIR/MIR 8PIN	~	~	~
V6030	4210401	Top	I	10	SC75	TR 2SA1774 P 50V 0.15A 140MHZ SC75	~	~	~
V6031	4210066	Top	I	9	SOT323	Tr NPN 12V 35mA SOT323	~	~	~
V7100	4210261	Bot.	D	5	SOT_363	TR BGA428 LNA1.8GHZ 19.5DB	~	~	~
X2020	5409255	Bot.	G	8	BATT_CON N	BATT.CONN 3POL 12V 2A H7	~	~	~
X2021	5460061	Bot.	U	7	CONN	SM SYSTEM CON-NECTOR 14POL	~	~	~
X2700	5409107	Bot.	K	8	CONN	SM SIM CONN 2X3POL P2.54 H=1.6MM	~	~	~
X4450	5409307	Bot.	F	6	SOCKET	CAMERA MOD. SOCKET 2X10POL	~	~	~
X4451	5469231	Top	T	6	CONN	SM CONN 2X10M P1.0 50V 1A PWB/PWB	~	~	~
X4452	5469219	Top	B	8	CONN	SM CONN 2X12F P0.4 30V 0.3A PWB/PWB	~	~	~
X5200	5409295	Bot.	P	4	CONN_CT4	MMC-CONNECTOR	~	~	~
X7100	5429021	Bot.	C	4	COAX_CR S5001	SM CONN RF+SW 100V 1W 50R 2.2GHZ	~	~	~
Z4450	4129031	Top	S	5	uBGA24_2. 62X2.62	ASIP EMIF10-1K010F2 **PB-FREE**	~	~	~
Z4451	4129031	Top	S	6	uBGA24_2. 62X2.62	ASIP EMIF10-1K010F2 **PB-FREE**	~	~	~
Z4452	4129035	Top	C	8	uBGA25_2. 69X2.69	ASIP 10-CH ESD EMI FILTER BGA25	~	~	~
Z4453	4129035	Top	C	9	uBGA25_2. 69X2.69	ASIP 10-CH ESD EMI FILTER BGA25	~	~	~
Z6030	4550265	Top	P	9	FILTER	CER FILT 2.5X2.0	2441M Hz	~	~
Z7000	4511403	Bot.	B	9	FILTER	SAW FILT 2.7DB 2.5X2	824-849MHz	~	~
Z7100	4550263	Bot.	B	5	ANT_SW	850/900/1800/1900 6.7X5	~	~	~

Copyright © 2005 Nokia. All Rights Reserved.

Item	Code	Side	X	Y	Type	Description and value			
Z7101	4511409	Bot.	E	1	FILTER	SAW FILT 2.5X2.0MM	881.5M Hz	~	~
Z7102	4511413	Bot.	E	2	FILTER	SAW FILT2.5X2MM	1842.5 MHz	~	~
Z7103	4511405	Bot.	C	5	FILTER	SAW FILT 2.5X2.0MM	1960M Hz	~	~

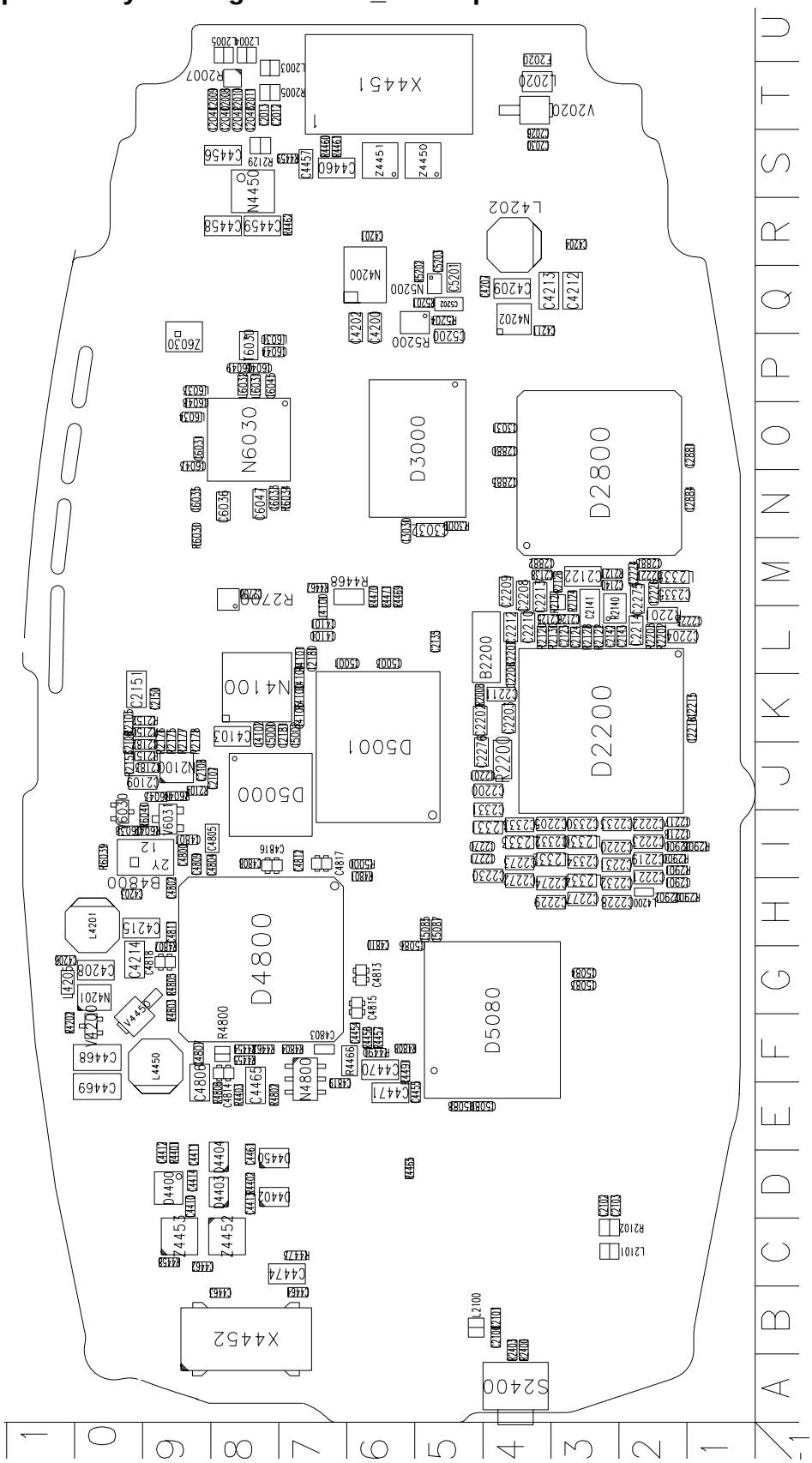
Copyright © 2005 Nokia. All Rights Reserved.

Component layout diagram v. hl9_14 - Bot.



Copyright © 2005 Nokia. All Rights Reserved.

Component layout diagram v. hl9_14 - Top



Version hl9_15

Item	Code	Side	X	Y	Type	Description and value			
A1000	9511166	Bot.	H	5	SHIELD	DMD10393	~	~	~
A1001	9517267	Bot.	C	7	RF SHIELD 1	DMC06132	~	~	~
A1002	9517268	Bot.	G	3	RF SHIELD 2	DMC06133	~	~	~
B2110	5140251	Top	A	6	SPEAKER	D8.1X2.25 MM PICO	105+-3DB 32R	~	~
B2120	5140253	Bot.	D	2	SPEAKER	D16X4.36	HF 69+-2DB 8R	~	~
B2130	5140265	Bot.	T	8	MIC_	MIC MOD +HOLDER	42 dB	~	~
B2200	4510219	Top	L	4	CRYSTAL	9PF	32.768kHz	~	~
B4800	4510423	Top	I	9	CRYSTAL_	10PF	12MHz	~	~
C2000	2320481	Bot.	S	5	Chipcap X5R	1u0	6.3V	10%	0603C
C2001	2320620	Bot.	S	5	Chipcap X7R	10n	16V	5%	0402C
C2002	2320481	Bot.	S	5	Chipcap X5R	1u0	6.3V	10%	0603C
C2003	2320544	Bot.	T	5	Chipcap NP0	22p	50V	5%	0402C
C2004	2320805	Bot.	T	6	Chipcap X5R	100n	10V	10%	0402C
C2005	2316001	Bot.	S	7	Chipcap X5R	2u2	6V3	10%	0603C
C2006	2320481	Bot.	S	6	Chipcap X5R	1u0	6.3V	10%	0603C
C2007	2320620	Bot.	S	6	Chipcap X7R	10n	16V	5%	0402C
C2008	2320596	Top	T	8	Chipcap X7R	3n3	50V	5%	0402C
C2009	2320596	Top	T	8	Chipcap X7R	3n3	50V	5%	0402C
C2010	2320596	Top	T	8	Chipcap X7R	3n3	50V	5%	0402C
C2011	2320596	Top	T	8	Chipcap X7R	3n3	50V	5%	0402C
C2012	2320596	Top	T	8	Chipcap X7R	3n3	50V	5%	0402C
C2013	2320596	Top	T	8	Chipcap X7R	3n3	50V	5%	0402C
C2020	2320546	Bot.	H	8	Chipcap NP0	27p	50V	5%	0402C
C2026	2320584	Top	S	4	Chipcap X7R	1n0	50V	5%	0402C
C2030	2320544	Top	S	4	Chipcap NP0	22p	50V	5%	0402C
C2038	2320546	Bot.	F	9	Chipcap NP0	27p	50V	5%	0402C
C2040	2320564	Top	T	8	Chipcap NP0	150p	50V	5%	0402C
C2041	2320564	Top	T	8	Chipcap NP0	150p	50V	5%	0402C
C2042	2320564	Top	T	8	Chipcap NP0	150p	50V	5%	0402C

Copyright © 2005 Nokia. All Rights Reserved.

Item	Code	Side	X	Y	Type	Description and value			
C2043	2320564	Top	T	8	Chipcap NP0	150p	50V	5%	0402C
C2070	2320481	Bot.	E	8	Chipcap X5R	1u0	6.3V	10%	0603C
C2100	2320620	Top	B	4	Chipcap X7R	10n	16V	5%	0402C
C2101	2320620	Top	B	4	Chipcap X7R	10n	16V	5%	0402C
C2102	2320544	Top	D	3	Chipcap	22p	50V	5%	0402C
C2103	2320544	Top	D	3	Chipcap	22p	50V	5%	0402C
C2106	2320805	Top	J	10	Chipcap	100n	10V	10%	0402C
C2107	2320805	Top	J	8	Chipcap X5R	100n	10V	10%	0402C
C2108	2320805	Top	J	9	Chipcap X5R	100n	10V	10%	0402C
C2109	2320481	Top	J	10	Chipcap X5R	1u0	6.3V	10%	0603C
C2122	2310037	Top	M	3	Chipcap X5R	10U	6V3	20%	0805C
C2123	2320783	Top	L	3	Chipcap X7R	33n	10V	10%	0402C
C2124	2320783	Top	L	3	Chipcap X7R	33n	10V	10%	0402C
C2125	2320584	Top	L	4	Chipcap X7R	1n0	50V	5%	0402C
C2126	2320584	Top	L	3	Chipcap X7R	1n0	50V	5%	0402C
C2133	2320544	Bot.	S	8	Chipcap NP0	22p	50V	5%	0402C
C2135	2320805	Top	L	5	Chipcap X5R	100n	10V	10%	0402C
C2138	2320805	Top	M	4	Chipcap X5R	100n	10V	10%	0402C
C2140	2320805	Top	M	3	Chipcap X5R	100n	10V	10%	0402C
C2141	2310037	Top	L	3	Chipcap X5R	10U	6V3	20%	0805C
C2142	2320783	Top	L	3	Chipcap X7R	33n	10V	10%	0402C
C2143	2320783	Top	L	2	Chipcap X7R	33n	10V	10%	0402C
C2150	2320805	Top	K	9	Chipcap X5R	100n	10V	10%	0402C
C2151	2310037	Top	K	10	Chipcap X5R	10U	6V3	20%	0805C
C2180	2320805	Top	L	7	Chipcap X5R	100n	10V	10%	0402C
C2181	2320805	Top	K	7	Chipcap X5R	100n	10V	10%	0402C
C2182	2320805	Top	J	9	Chipcap X5R	100n	10V	10%	0402C
C2183	2320805	Top	J	9	Chipcap X5R	100n	10V	10%	0402C
C2200	2320481	Top	J	4	Chipcap X5R	1u0	6.3V	10%	0603C
C2201	2320778	Top	J	5	Chipcap X7R	10n	16V	10%	0402C
C2202	2320481	Top	K	5	Chipcap X5R	1u0	6.3V	10%	0603C
C2203	2320481	Top	K	4	Chipcap X5R	1u0	6.3V	10%	0603C

Copyright © 2005 Nokia. All Rights Reserved.

Item	Code	Side	X	Y	Type	Description and value			
C2204	2320481	Top	L	2	Chipcap X5R	1u0	6.3V	10%	0603C
C2205	2320481	Top	I	4	Chipcap X5R	1u0	6.3V	10%	0603C
C2206	2320536	Top	K	4	Chipcap NP0	10p	50V	5%	0402C
C2207	2320536	Top	L	4	Chipcap NP0	10p	50V	5%	0402C
C2208	2320481	Top	M	4	Chipcap X5R	1u0	6.3V	10%	0603C
C2209	2320481	Top	M	4	Chipcap X5R	1u0	6.3V	10%	0603C
C2210	2320481	Top	L	4	Chipcap X5R	1u0	6.3V	10%	0603C
C2211	2320481	Top	K	4	Chipcap X5R	1u0	6.3V	10%	0603C
C2212	2320481	Top	L	4	Chipcap X5R	1u0	6.3V	10%	0603C
C2213	2320481	Top	M	4	Chipcap X5R	1u0	6.3V	10%	0603C
C2214	2320481	Top	L	2	Chipcap X5R	1u0	6.3V	10%	0603C
C2215	2320805	Top	K	1	Chipcap X5R	100n	10V	10%	0402C
C2216	2320805	Top	K	1	Chipcap X5R	100n	10V	10%	0402C
C2217	2320805	Top	I	2	Chipcap X5R	100n	10V	10%	0402C
C2218	2320805	Top	I	2	Chipcap X5R	100n	10V	10%	0402C
C2219	2320481	Top	I	2	Chipcap X5R	1u0	6.3V	10%	0603C
C2220	2320481	Top	I	3	Chipcap X5R	1u0	6.3V	10%	0603C
C2221	2320481	Top	I	2	Chipcap X5R	1u0	6.3V	10%	0603C
C2222	2320481	Top	I	2	Chipcap X5R	1u0	6.3V	10%	0603C
C2223	2320481	Top	I	2	Chipcap X5R	1u0	6.3V	10%	0603C
C2224	2320778	Top	M	2	Chipcap X5R	10n	16V	10%	0402C
C2225	2320778	Top	L	1	Chipcap X7R	10n	16V	10%	0402C
C2226	2320584	Top	M	2	Chipcap X7R	1n0	50V	5%	0402C
C2227	2320584	Top	M	2	Chipcap X7R	1n0	50V	5%	0402C
C2228	2320481	Top	H	3	Chipcap X5R	1u0	6.3V	10%	0603C
C2229	2320481	Top	H	4	Chipcap X5R	1u0	6.3V	10%	0603C
C2230	2320481	Top	I	4	Chipcap X5R	1u0	6.3V	10%	0603C
C2231	2320481	Top	I	3	Chipcap X5R	1u0	6.3V	10%	0603C
C2232	2320481	Top	H	3	Chipcap X5R	1u0	6.3V	10%	0603C
C2233	2320481	Top	I	3	Chipcap X5R	1u0	6.3V	10%	0603C
C2270	2320805	Top	I	5	Chipcap X5R	100n	10V	10%	0402C
C2271	2320805	Top	I	5	Chipcap X5R	100n	10V	10%	0402C

Copyright © 2005 Nokia. All Rights Reserved.

Item	Code	Side	X	Y	Type	Description and value			
C2272	2320481	Top	H	4	Chipcap X5R	1u0	6.3V	10%	0603C
C2273	2320481	Top	I	4	Chipcap X5R	1u0	6.3V	10%	0603C
C2274	2320481	Top	H	4	Chipcap X5R	1u0	6.3V	10%	0603C
C2275	2320481	Top	M	2	Chipcap X5R	1u0	6.3V	10%	0603C
C2276	2320481	Top	J	5	Chipcap X5R	1u0	6.3V	10%	0603C
C2277	2320481	Top	H	3	Chipcap X5R	1u0	6.3V	10%	0603C
C2330	2320481	Top	I	3	Chipcap X5R	1u0	6.3V	10%	0603C
C2331	2320481	Top	J	4	Chipcap X5R	1u0	6.3V	10%	0603C
C2332	2320481	Top	I	4	Chipcap X5R	1u0	6.3V	10%	0603C
C2333	2320481	Top	I	4	Chipcap X5R	1u0	6.3V	10%	0603C
C2334	2320481	Top	I	3	Chipcap X5R	1u0	6.3V	10%	0603C
C2335	2320481	Top	M	2	Chipcap X5R	1u0	6.3V	10%	0603C
C2401	2320620	Bot.	K	1	Chipcap X7R	10n	16V	5%	0402C
C2700	2320805	Top	M	8	Chipcap X5R	100n	10V	10%	0402C
C2880	2320778	Top	O	4	Chipcap X7R	10n	16V	10%	0402C
C2881	2320805	Top	O	1	Chipcap X5R	100n	10V	10%	0402C
C2882	2320778	Top	M	4	Chipcap X7R	10n	16V	10%	0402C
C2883	2320778	Top	M	2	Chipcap X7R	10n	16V	10%	0402C
C2884	2320778	Top	N	1	Chipcap X7R	10n	16V	10%	0402C
C2885	2320778	Top	N	4	Chipcap X7R	10n	16V	10%	0402C
C2900	2320560	Top	I	2	Chipcap NP0	100p	50V	5%	0402C
C2901	2320560	Top	H	2	Chipcap NP0	100p	50V	5%	0402C
C2902	2320560	Top	H	2	Chipcap NP0	100p	50V	5%	0402C
C3030	2320778	Top	N	6	Chipcap X7R	10n	16V	10%	0402C
C3031	2320805	Top	O	4	Chipcap X5R	100n	10V	10%	0402C
C3032	2320779	Top	N	5	Chipcap X7R	100N K	100n	16V	0603_
C4100	2320805	Top	L	7	Chipcap X5R	100n	10V	10%	0402C
C4101	2320544	Top	L	7	Chipcap NP0	22p	50V	5%	0402C
C4102	2320805	Top	K	8	Chipcap X5R	100n	10V	10%	0402C
C4103	2310037	Top	K	8	Chipcap X5R	10U	6V3	20%	0805C
C4104	2320805	Top	K	7	Chipcap X5R	100n	10V	10%	0402C
C4105	2320760	Top	K	7	Chipcap X7R	4n7	25V	10%	0402C

Copyright © 2005 Nokia. All Rights Reserved.

Item	Code	Side	X	Y	Type	Description and value			
C4200	2316001	Top	Q	6	Chipcap X5R	2u2	6V3	10%	0603C
C4201	2320783	Top	R	6	Chipcap X7R	33n	10V	10%	0402C
C4202	2316001	Top	Q	6	Chipcap X5R	2u2	6V3	10%	0603C
C4203	2320778	Top	H	10	Chipcap X7R	10n	16V	10%	0402C
C4204	2320778	Top	R	3	Chipcap X7R	10n	16V	10%	0402C
C4206	2320805	Top	G	11	Chipcap X5R	100n	10V	10%	0402C
C4207	2320805	Top	Q	4	Chipcap X5R	100n	10V	10%	0402C
C4208	2310037	Top	G	10	Chipcap X5R	10U	6V3	20%	0805C
C4209	2310037	Top	Q	4	Chipcap X5R	10U	6V3	20%	0805C
C4211	2320778	Top	Q	4	Chipcap X7R	10n	16V	10%	0402C
C4212	2310037	Top	Q	3	Chipcap X5R	10U	6V3	20%	0805C
C4213	2310037	Top	Q	4	Chipcap X5R	10U	6V3	20%	0805C
C4214	2310037	Top	G	10	Chipcap X5R	10U	6V3	20%	0805C
C4215	2310037	Top	H	9	Chipcap X5R	10U	6V3	20%	0805C
C4410	2320620	Top	D	9	Chipcap X7R	10n	16V	5%	0402C
C4411	2320620	Top	D	9	Chipcap X7R	10n	16V	5%	0402C
C4412	2320560	Top	D	9	Chipcap NP0	100p	50V	5%	0402C
C4413	2320576	Top	D	8	Chipcap X7R	470p	50V	5%	0402C
C4414	2320620	Top	D	9	Chipcap X7R	10n	16V	5%	0402C
C4450	2320805	Bot.	G	10	Chipcap X5R	100n	10V	10%	0402C
C4451	2310037	Bot.	G	10	Chipcap X5R	10U	6V3	20%	0805C
C4452	2320137	Bot.	H	10	Chipcap X5R	470n	10V	10%	0603C
C4453	2320544	Bot.	H	10	Chipcap NP0	22p	50V	5%	0402C
C4454	2320805	Top	F	6	Chipcap X5R	100n	10V	10%	0402C
C4455	2320805	Top	E	5	Chipcap X5R	100n	10V	10%	0402C
C4456	2310037	Top	S	8	Chipcap X5R	10U	6V3	20%	0805C
C4457	2320481	Top	S	7	Chipcap X5R	1u0	6.3V	10%	0603C
C4458	2312257	Top	R	8	Chipcap X7R	330n	16V	10%	0805C
C4459	2312257	Top	R	8	Chipcap X7R	330n	16V	10%	0805C
C4460	2310037	Top	S	7	Chipcap X5R	10U	6V3	20%	0805C
C4461	2320620	Top	D	8	Chipcap X7R	10n	16V	5%	0402C
C4462	2320536	Top	C	9	Chipcap NP0	10p	50V	5%	0402C

Copyright © 2005 Nokia. All Rights Reserved.

Item	Code	Side	X	Y	Type	Description and value			
C4463	2320805	Top	B	8	Chipcap X5R	100n	10V	10%	0402C
C4464	2320536	Top	B	7	Chipcap NP0	10p	50V	5%	0402C
C4465	2312243	Top	E	8	Chipcap X5R	4u7	6V3	10%	0805C
C4466	2320552	Bot.	F	10	Chipcap NP0	47p	50V	5%	0402C
C4467	2312243	Bot.	F	10	Chipcap X5R	4u7	6V3	10%	0805C
C4468	2312411	Top	F	10	Chipcap X5R	1U0	1u0	25V	1206_
C4469	2312411	Top	E	10	Chipcap X5R	1U0 M	1u0	25V	1206_
C4470	2310037	Top	F	6	Chipcap X5R	10U	6V3	20%	0805C
C4471	2310037	Top	E	6	Chipcap X5R	10U	6V3	20%	0805C
C4472	2320554	Bot.	G	7	Chipcap NP0	56p	50V	5%	0402C
C4473	2310037	Top	C	7	Chipcap X5R	10U	6V3	20%	0805C
C4474	2310037	Top	C	7	Chipcap X5R	10U	6V3	20%	0805C
C4800	2320548	Top	I	9	Chipcap NP0	33p	50V	5%	0402C
C4801	2320548	Top	I	9	Chipcap NP0	33p	50V	5%	0402C
C4802	2320540	Top	H	9	Chipcap NP0	15p	50V	5%	0402C
C4803	2320805	Top	F	7	Chipcap X5R	100n	10V	10%	0402C
C4804	2320805	Top	I	8	Chipcap X5R	100n	10V	10%	0402C
C4805	2320481	Top	I	8	Chipcap X5R	1u0	6.3V	10%	0603C
C4806	2310037	Top	E	9	Chipcap X5R	10U	6V3	20%	0805C
C4807	2320805	Top	F	9	Chipcap X5R	100n	10V	10%	0402C
C4808	2320805	Top	I	8	Chipcap X5R	100n	10V	10%	0402C
C4809	2320778	Top	I	9	Chipcap X7R	10n	16V	10%	0402C
C4810	2320805	Top	H	6	Chipcap X5R	100n	10V	10%	0402C
C4811	2320778	Top	H	9	Chipcap X7R	10n	16V	10%	0402C
C4812	2320805	Top	I	7	Chipcap X5R	100n	10V	10%	0402C
C4813	2315257	Top	G	6	CHIP ARRAY	X5R	2x10n	16V	0405_2_
C4814	2315257	Top	F	8	CHIP ARRAY	X5R	2x10n	16V	0405_2_
C4815	2315257	Top	G	6	CHIP ARRAY	X5R	2x10n	16V	0405_2_
C4816	2315257	Top	I	8	CHIP ARRAY	X5R	2x10n	16V	0405_2_
C4817	2315257	Top	I	7	CHIP ARRAY	X5R	2x10n	16V	0405_2_
C4818	2315257	Top	G	9	CHIP ARRAY	2X10N K	2x10n	16V	0405_2_
C4819	2320778	Top	E	7	Chipcap X7R	10n	16V	10%	0402C

Copyright © 2005 Nokia. All Rights Reserved.

Item	Code	Side	X	Y	Type	Description and value			
C5000	2320805	Top	K	8	Chipcap X5R	100n	10V	10%	0402C
C5001	2320805	Top	L	7	Chipcap X5R	100n	10V	10%	0402C
C5002	2320805	Top	K	7	Chipcap X5R	100n	10V	10%	0402C
C5003	2320805	Top	L	6	Chipcap X5R	100n	10V	10%	0402C
C5083	2320805	Top	G	3	Chipcap X5R	100n	10V	10%	0402C
C5084	2320778	Top	G	3	Chipcap X7R	10n	16V	10%	0402C
C5085	2320778	Top	H	5	Chipcap X7R	10n	16V	10%	0402C
C5086	2320805	Top	H	6	Chipcap X5R	100n	10V	10%	0402C
C5087	2320778	Top	H	5	Chipcap X5R	10n	16V	10%	0402C
C5088	2320778	Top	E	5	Chipcap X5R	10n	16V	10%	0402C
C5089	2320778	Top	E	5	Chipcap X7R	10n	16V	10%	0402C
C5200	2320481	Top	P	5	Chipcap X5R	1u0	6.3V	10%	0603C
C5201	2320481	Top	Q	5	Chipcap X5R	1u0	6.3V	10%	0603C
C5202	2320481	Top	Q	5	Chipcap X5R	1u0	6.3V	10%	0603C
C5203	2320620	Top	R	5	Chipcap X5R	10n	16V	5%	0402C
C6031	2320778	Top	O	9	Chipcap X5R	10n	16V	10%	0402C
C6033	2320778	Top	N	8	Chipcap X7R	10n	16V	10%	0402C
C6035	2320778	Top	N	9	Chipcap X7R	10n	16V	10%	0402C
C6036	2320481	Top	N	8	Chipcap X5R	1u0	6.3V	10%	0603C
C6038	2320778	Top	I	10	Chipcap X7R	10n	16V	10%	0402C
C6043	2320778	Top	O	9	Chipcap X7R	10n	16V	10%	0402C
C6044	2320540	Top	P	8	Chipcap NP0	15p	50V	5%	0402C
C6045	2320540	Top	P	8	Chipcap NP0	15p	50V	5%	0402C
C6046	2320520	Top	P	8	Chipcap NP0	2p2	50V		0402C
C6047	2316001	Top	N	8	Chipcap X5R	2u2	6V3	10%	0603C
C6048	2320524	Top	O	9	Chipcap NP0	3p3	50V		0402C
C6049	2320520	Top	P	8	Chipcap NP0	2p2	50V		0402C
C7000	2320584	Bot.	D	7	Chipcap X7R	1n0	50V	5%	0402C
C7001	2320584	Bot.	A	8	Chipcap X7R	1n0	50V	5%	0402C
C7002	2320584	Bot.	C	6	Chipcap X7R	1n0	50V	5%	0402C
C7003	2310045	Bot.	B	9	Chipcap X5R	68N	68n	10V	0402C_
C7004	2310045	Bot.	D	9	Chipcap X5R	68N K	68n	10V	0402C

Copyright © 2005 Nokia. All Rights Reserved.

Item	Code	Side	X	Y	Type	Description and value			
C7005	2320546	Bot.	C	9	Chipcap NP0	27p	50V	5%	0402C
C7006	2320546	Bot.	C	9	Chipcap NP0	27p	50V	5%	0402C
C7007	2320518	Bot.	B	9	Chipcap NP0	1p8	50V		0402C
C7008	2320516	Bot.	C	9	Chipcap NP0	1p5	50V		0402C
C7009	2320540	Bot.	D	9	Chipcap NP0	15p	50V	5%	0402C
C7010	2320540	Bot.	D	9	Chipcap NP0	15p	50V	5%	0402C
C7011	2320518	Bot.	D	9	Chipcap NP0	1p8	50V		0402C
C7012	2320554	Bot.	D	7	Chipcap NP0	56p	50V	5%	0402C
C7013	2320584	Bot.	B	9	Chipcap X7R	1n0	50V	5%	0402C
C7014	2320584	Bot.	D	9	Chipcap X7R	1n0	50V	5%	0402C
C7015	2320584	Bot.	D	7	Chipcap X7R	1n0	50V	5%	0402C
C7016	2611745	Bot.	D	10	CHIPTCAP	7.3X4.3X2	150u_10V	10V	
C7017	2320546	Bot.	C	10	Chipcap NP0	27p	50V	5%	0402C
C7018	2312243	Bot.	C	10	Chipcap X5R	4u7	6V3	10%	0805C
C7019	2320778	Bot.	B	10	Chipcap X7R	10n	16V	10%	0402C
C7020	2320540	Bot.	C	9	Chipcap NP0	15p	50V	5%	0402C
C7021	2320538	Bot.	D	7	Chipcap NP0	12p	50V	5%	0402C
C7022	2320554	Bot.	C	9	Chipcap NP0	56p	50V	5%	0402C
C7023	2320560	Bot.	C	9	Chipcap NP0	100p	50V	5%	0402C
C7024	2320538	Bot.	C	9	Chipcap NP0	12p	50V	5%	0402C
C7025	2320560	Bot.	A	7	Chipcap NP0	100p	50V	5%	0402C
C7026	2320584	Bot.	C	6	Chipcap X7R	1n0	50V	5%	0402C
C7027	2320554	Bot.	D	6	Chipcap NP0	56p	50V	5%	0402C
C7028	2320508	Bot.	C	6	Chipcap NP0	1p0	50V		0402C
C7029	2320508	Bot.	C	6	Chipcap NP0	1p0	50V		0402C
C7100	2320544	Bot.	A	5	Chipcap NP0	22p	50V	5%	0402C
C7101	2320560	Bot.	B	4	Chipcap NP0	100p	50V	5%	0402C
C7102	2320560	Bot.	A	6	Chipcap NP0	100p	50V	5%	0402C
C7103	2320552	Bot.	A	5	Chipcap NP0	47p	50V	5%	0402C
C7104	2320516	Bot.	F	1	Chipcap NP0	1p5	50V		0402C
C7105	2320508	Bot.	F	1	Chipcap NP0	1p0	50V		0402C
C7106	2320516	Bot.	E	2	Chipcap NP0	1p5	50V		0402C

Copyright © 2005 Nokia. All Rights Reserved.

Item	Code	Side	X	Y	Type	Description and value			
C7107	2320516	Bot.	F	2	Chipcap NP0	1p5	50V		0402C
C7108	2320520	Bot.	C	5	Chipcap NP0	2p2	50V		0402C
C7109	2320805	Bot.	D	6	Chipcap X5R	100n	10V	10%	0402C
C7110	2320540	Bot.	D	6	Chipcap NP0	15p	50V	5%	0402C
C7111	2320514	Bot.	D	5	Chipcap NP0	1p2	50V		0402C
C7112	2320560	Bot.	F	2	Chipcap NP0	100p	50V	5%	0402C
C7113	2320560	Bot.	F	2	Chipcap NP0	100p	50V	5%	0402C
C7200	2320491	Bot.	I	3	Chipcap X7R	220n	10V	10%	0603C
C7201	2320552	Bot.	I	4	Chipcap NP0	47p	50V	5%	0402C
C7202	2320560	Bot.	E	3	Chipcap NP0	100p	50V	5%	0402C
C7203	2320560	Bot.	E	2	Chipcap NP0	100p	50V	5%	0402C
C7204	2320584	Bot.	I	6	Chipcap X7R	1n0	50V	5%	0402C
C7205	2320536	Bot.	I	6	Chipcap NP0	10p	50V	5%	0402C
C7206	2320564	Bot.	H	6	Chipcap NP0	150p	50V	5%	0402C
C7207	2322023	Bot.	G	5	Chipcap NP0	2n2	16V	5%	0603C
C7208	2321013	Bot.	G	6	Chipcap NP0	270p	25V	5%	0402C
C7300	2320538	Bot.	H	3	Chipcap NP0	12p	50V	5%	0402C
C7301	2320568	Bot.	H	3	Chipcap X7R	220p	50V	5%	0402C
C7302	2320805	Bot.	H	1	Chipcap X5R	100n	10V	10%	0402C
C7303	2320554	Bot.	F	1	Chipcap NP0	56p	50V	5%	0402C
C7304	2320536	Bot.	H	2	Chipcap NP0	10p	50V	5%	0402C
C7305	2320584	Bot.	H	2	Chipcap X7R	1n0	50V	5%	0402C
C7306	2320546	Bot.	G	3	Chipcap NP0	27p	50V	5%	0402C
C7307	2320576	Bot.	F	1	Chipcap X7R	470p	50V	5%	0402C
C7308	2320576	Bot.	G	1	Chipcap X7R	470p	50V	5%	0402C
C7309	2320576	Bot.	G	1	Chipcap X7R	470p	50V	5%	0402C
C7310	2320576	Bot.	G	1	Chipcap X7R	470p	50V	5%	0402C
C7311	2320805	Bot.	G	1	Chipcap X5R	100n	10V	10%	0402C
C7312	2320560	Bot.	G	4	Chipcap NP0	100p	50V	5%	0402C
C7313	2320584	Bot.	H	2	Chipcap X7R	1n0	50V	5%	0402C
C7314	2320558	Bot.	H	1	Chipcap NP0	82p	50V	5%	0402C
C7315	2320552	Bot.	H	3	Chipcap NP0	47p	50V	5%	0402C

Copyright © 2005 Nokia. All Rights Reserved.

Item	Code	Side	X	Y	Type	Description and value			
C7316	2320552	Bot.	H	2	Chipcap NP0	47p	50V	5%	0402C
C7317	2320744	Bot.	I	2	Chipcap X7R	1n0	50V	10%	0402C
C7318	2320554	Bot.	E	3	Chipcap NP0	56p	50V	5%	0402C
C7319	2320604	Bot.	F	3	Chipcap NP0	18p	50V	5%	0402C
C7320	2320546	Bot.	E	3	Chipcap NP0	27p	50V	5%	0402C
C7321	2320560	Bot.	E	3	Chipcap NP0	100p	50V	5%	0402C
C7322	2320598	Bot.	F	4	Chipcap X7R	3n9	50V	5%	0402C
C7323	2320604	Bot.	F	4	Chipcap NP0	18p	50V	5%	0402C
C7324	2320554	Bot.	F	4	Chipcap NP0	56p	50V	5%	0402C
C7325	2320907	Bot.	G	3	Chipcap NP0	HQ 0P7 B 1	0p7	16V	0402C_
C7326	2320598	Bot.	F	3	Chipcap X7R	3n9	50V	5%	0402C
C7327	2322023	Bot.	E	3	Chipcap NP0	2n2	16V	5%	0603C
C7328	2321003	Bot.	E	4	Chipcap N750	1p8	50V		0402C
C7329	2320592	Bot.	F	3	Chipcap X7R	2n2	50V	5%	0402C
C7330	2320592	Bot.	F	4	Chipcap X7R	2n2	50V	5%	0402C
D2200	4377029	Top	K	3	UEMK_	EDGE LF	WDENA	TO25	TFBGA168
D2800	4377009	Top	N	3	ASIC	UPP8M V3.5 LF	F751542I	~	uBGA144_CC
D3000	4347153	Top	O	5	IC	FLASH	2Mx16	~	BGA40_
D4400	4349825	Top	D	9	NAND 2X2-INPUT	74LVC2G00	~	~	VSSOP8
D4402	4349817	Top	D	8	2XBUFFER	74LVC2G17	~	~	SC70-6
D4403	4349823	Top	D	8	OR-GATE 2INPUT	74LVC1G32	~	~	SC70-5
D4404	4349823	Top	D	8	OR-GATE 2INPUT	74LVC1G32	~	~	SC70-5
D4450	4349821	Top	D	8	2XBUFFER O/ DRAIN	74LVC2G07	~	~	SC70-6
D4451	4341309	Bot.	F	10	DC/DC CONV	TK11851	~	~	SOP8
D4800	4371703	Top	G	8	HELEN V1	OMAP1510	GZZG2R289U	~	uBGA_289
D5000	4347027	Top	J	8	ADAPTER P	~	~	~	FBGA64
D5001	4347171	Top	J	6	FLASH	32Mx8	~	~	TBGA63
D5080	4347183	Top	F	4	SDRAM		32Mx16	~	FBGA_5
F2020	5119029	Top	U	4	SM FUSE F	32V	1.5A	~	0603_F

Copyright © 2005 Nokia. All Rights Reserved.

Item	Code	Side	X	Y	Type	Description and value			
G2400	4700141	Bot.	N	2	CELL CAPACI-TOR	0.01MAH	3V3	~	RB414H
G7200	4510417	Bot.	H	3	VCTCXO	2.7v 1.3MA GSM	26MHz	~	NGK3138C
G7201	4350431	Bot.	H	5	VCO	FOUR 2.7V 20MA	3296-3980MHz	~	VCO_FDK_IT_4
J7100	9510434	Bot.	A	3	SPRING CLIP	M3E14601	~	~	
J7101	9510434	Bot.	A	4	SPRING CLIP	M3E14601	~	~	
J7102	9510434	Bot.	A	3	SPRING CLIP	M3E14601	~	~	
L2000	3203755	Bot.	T	5	FERRITE BEAD	600R	100MHz	~	0402
L2001	3203771	Bot.	T	6	FERRITE BEAD	0R05	220R/100MHz		0603
L2002	3203755	Bot.	T	6	FERRITE BEAD	0.6R	600R/100MHz	~	0402
L2003	3203803	Top	T	8	CHIP BEAD ARRAY	2X1000R 0405	2x1000R/100MHz	~	0405_2_H1.0
L2004	3203803	Top	U	8	CHIP BEAD ARRAY	2X1000R 0405	2x1000R/100MHz	~	0405_2_H1.0
L2005	3203803	Top	U	8	CHIP BEAD ARRAY	2X1000R 0405	2x1000R/100MHz	~	0405_2_H1.0
L2020	3203743	Top	T	4	FERRITE BEAD	0R03	42R/100MHz		0805
L2040	3203755	Bot.	T	7	FERRITE BEAD	0.6R	600R/100MHz	~	0402
L2100	3203803	Top	B	5	CHIP BEAD ARRAY	Y 2X1000R 0405	2x1000R/100MHz	~	0405_2_H1.0
L2101	3203809	Top	C	3	CHIP BEAD ARRAY	2X220R 0405	2x220R	~	0405_2_TDK
L2120	3203755	Bot.	S	7	FERRITE BEAD	0.6R	600R/100MHz	~	0402
L2121	3203755	Bot.	S	8	FERRITE BEAD	0.6R	600R/100MHz	~	0402
L2330	3203741	Top	I	3	FERRITE BEAD	0R5	600R/100MHz	~	0603_BLM
L2331	3203741	Top	I	4	FERRITE BEAD	0R5	600R/100MHz	~	0603_BLM
L2332	3203741	Top	I	4	FERRITE BEAD	0R5	600R/100MHz	~	0603_BLM
L2333	3203741	Top	I	4	FERRITE BEAD	0R5	600R/100MHz	~	0603_BLM

Copyright © 2005 Nokia. All Rights Reserved.

Item	Code	Side	X	Y	Type	Description and value			
L2334	3203741	Top	H	3	FERRITE BEAD	0R5	600R/ 100MHz	~	0603_BLM
L2335	3203741	Top	M	2	FERRITE BEAD	0R5	600R/ 100MHz	~	0603_BLM
L4100	3203755	Top	L	7	FERRITE BEAD	0.6R	600R/ 100MHz	~	
L4200	3203755	Top	H	2	FERRITE BEAD	0.6R	600R/ 100MHz	~	
L4201	3640151	Top	H	10	CHOKE	0.6A 0R18	10uH	~	
L4202	3640151	Top	R	4	CHOKE	0.6A	10uH	~	
L4205	3203723	Top	G	11	FERRITE BEAD	0R35	68R/ 100MHz	~	
L4450	3640149	Top	F	9	CHOKE	0.5A	15uH	~	
L4451	3203723	Bot.	E	10	FERRITE BEAD	0R35 0603	68R/ 100MHz	~	00603
L6030	3646239	Top	P	8	CHIP COIL	22N J Q7/ 100M 0402	22nH	~	0402C
L6031	3646215	Top	P	8	CHIP COIL	Q6/100M	3n3H	~	0402C
L6032	3646215	Top	P	8	CHIP COIL	100M	3n3H	~	0402C
L6033	3646239	Top	P	9	CHIP COIL	J Q7/100M	22nH	~	0402C
L6034	3646239	Top	O	9	CHIP COIL	J Q7/100M	22nH	~	0402C
L7000	3203743	Bot.	C	10	FERRITE BEAD	3A 0805	42R/ 100MHz	~	
L7001	3646069	Bot.	C	9	CHIP COIL	33nH	~	5%	0805C
L7002	3646239	Bot.	B	9	CHIP COIL	J Q7/100M	22nH	~	0402C
L7003	3646053	Bot.	D	9	CHIP COIL	4n7H	~		0402C
L7004	3646091	Bot.	B	6	CHIP COIL	6n8H	~	5%	0402C
L7005	3646003	Bot.	D	6	CHIP COIL	2n2H	~		0805C
L7100	3646067	Bot.	F	1	CHIP COIL	18nH	~	5%	0402C
L7101	3646067	Bot.	F	1	CHIP COIL	18nH	~	5%	0402C
L7102	3646217	Bot.	F	2	CHIP COIL	Q7/100M	3n9H	~	0402C
L7103	3646217	Bot.	F	2	CHIP COIL	Q7/100M	3n9H	~	0402C
L7104	3646215	Bot.	C	5	CHIP COIL	Q6/100M 0	3n3H	~	0603C
L7105	3646083	Bot.	C	6	CHIP COIL	100nH	~	5%	0402C
L7106	3646215	Bot.	D	5	CHIP COIL	Q6/100M	3n3H	~	0603C

Copyright © 2005 Nokia. All Rights Reserved.

Item	Code	Side	X	Y	Type	Description and value			
L7107	3646101	Bot.	D	4	CHIP COIL	Q7/100M	3n9H	~	0603C
L7108	3646055	Bot.	F	2	CHIP COIL	8n2H	~	,+5%	0603C
L7300	3203755	Bot.	H	3	FERRITE BEAD	0.6R	600R/ 100MHz	~	0402
L7301	3646221	Bot.	G	4	CHIP COIL	Q7/100M 0	4n7H	~	0402
L7302	3646221	Bot.	G	4	CHIP COIL	Q7/100M 0	4n7H	~	0402
M2400	6800063	Bot.	K	2	VIBRA ASSY	1.0V 80MA	9000RPM	~	
N2000	4341703	Bot.	S	5	VREG	LP3985ITL	~	3V	USMD5
N2001	4340663	Bot.	S	6	REG	LP2985A-3.3	~	3.3V	SOT23-5
N2070	4341705	Bot.	E	8	CURRENT SENS	LM3820	~	~	USMD10
N2100	4341617	Top	J	9	AF AMP	LM4855ITLX NOPB	~	~	USMD18
N4100	4346165	Top	K	8	ANALOG IC	SN0404109	ZQER 2.7-3.6V	~	BGA80
N4200	4342341	Top	Q	6	REG	LP3981YD	2.8V	~	LLP-6
N4201	4346045	Top	G	10	DC-DC CONV	LM2708HTLX	1.57V/ 1.35V	~	USMD10
N4202	4341711	Top	Q	4	DC/DC	V LM2608-1.8	~	~	USMD10
N4450	4341137	Top	S	8	DC/DC Conv	LM3353	~	~	MSOP10
N4800	4341781	Top	F	7	VOLTAGE SUPERVISOR	TPS3103E12DBVR	~		
N5200	4341715	Top	Q	5	VREG	LP3985ITLX-3.0	~	3V	USMD5
N6030	4370975	Top	O	8	IC	BC213143	A-17-RK-E4	~	
N7000	4350435	Bot.	C	7	PW AMP	PF09009BN-02	850/1800/ 1900	~	
N7300	4380023	Bot.	G	2	ASIC	HELGO73ALF	~	~	TFBGA108
R2000	1430778	Bot.	S	5	Resistor	10k	63mW	5%	0603C
R2001	1430804	Bot.	T	5	Resistor	100k	63mW	5%	0402C
R2002	1430718	Bot.	T	5	Resistor	47R	63mW	5%	0402C
R2003	4129001	Bot.	T	6	ASIP	EMIF02-USB01F2		~	

Copyright © 2005 Nokia. All Rights Reserved.

Item	Code	Side	X	Y	Type	Description and value			
R2004	1430804	Bot.	S	6	Resistor	100k	63mW	5%	0402C
R2005	1825031	Top	T	8	VARISTOR ARRAY	2XVWM	16V VC50	~	0405
R2007	4129011	Top	T	8	ASIP	4XESD	~	~	BGA5
R2008	1430812	Top	K	5	Resistor	220k	63mW	5%	0603C
R2035	1825133	Bot.	H	8	CHIP VARISTOR	VWM	14V/50V	~	0402
R2036	1825133	Bot.	F	9	CHIP VARISTOR	VWM	14V/50V	~	0402
R2039	1820039	Bot.	L	4	NTC RES	J B=4050	47k	~	0402
R2044	1825133	Bot.	T	5	CHIP VARISTOR	VWM	14V/50V	~	0402
R2071	1430762	Bot.	E	9	Resistor	2k2	63mW	5%	0402C
R2072	1430762	Bot.	E	9	Resistor	2k2	63mW	5%	0603C
R2102	1825031	Top	C	3	VARISTOR ARRAY	2XVWM16 V	16V VC50	-	0404
R2104	1430764	Top	J	9	Resistor	3k3	63mW	5%	0603C
R2105	1430726	Top	K	10	Resistor	100R	63mW	5%	0603C
R2120	1430690	Top	L	4	jumper	0R	~		0402
R2121	1430778	Top	M	3	Resistor	10k	63mW	5%	0603C
R2122	1430734	Top	L	3	Resistor	220R	63mW	5%	0603C
R2124	1430754	Top	M	3	Resistor	1k0	63mW	5%	0603C
R2126	1430754	Top	M	3	Resistor	1k0	63mW	5%	0603C
R2127	1620105	Top	M	3	RES NETWORK	0W06	2x2k2	~	0404
R2128	1430734	Top	L	3	Resistor	220R	63mW	5%	0603C
R2129	1825031	Top	S	8	VARISTOR ARRAY	2XVWM	16VVC50	~	0405
R2130	1430690	Top	L	3	jumper	0R	~		0402C
R2140	4129253	Top	L	3	ASIP MIC	W/ESD RES+CAP+ ZDI	~	~	BGA22
R2150	1430778	Top	K	9	Resistor	10k	63mW	5%	0402C
R2151	1430778	Top	J	9	Resistor	10k	63mW	5%	0402C
R2152	1430770	Top	K	9	Resistor	4k7	63mW	5%	0402C
R2153	1430770	Top	J	10	Resistor	4k7	63mW	5%	0402C
R2175	1430700	Top	K	9	Resistor	10R	63mW	5%	0402C
R2176	1430700	Top	K	9	Resistor	10R	63mW	5%	0402C

Copyright © 2005 Nokia. All Rights Reserved.

Item	Code	Side	X	Y	Type	Description and value			
R2177	1430700	Top	K	9	Resistor	10R	63mW	5%	0402C
R2178	1430700	Top	K	9	Resistor	10R	63mW	5%	0402C
R2200	1414605	Top	J	4	Resistor	0R22 J	0W25	~	0805
R2201	1620043	Top	L	2	RES NETWORK	4x100k	0W03~	~	0804
R2202	1430770	Top	L	2	Resistor	4k7	63mW	5%	0402C
R2203	1430770	Top	L	2	Resistor	4k7	63mW	5%	0603_
R2400	1430778	Top	B	4	Resistor	10k	63mW	5%	0402C
R2401	4129011	Bot.	S	9	ASIP	4XESD	~	~	BGA5
R2402	4129011	Bot.	S	9	ASIP	4XESD	~	~	uBGA5
R2403	1825133	Top	B	4	CHIP VARISTOR	VWM	14V/50V	~	0402
R2405	1430804	Top	H	4	Resistor	100k	63mW	5%	0402R
R2700	4129071	Top	M	8	ASIP	EMIF03-SIM01F2		~	uBGA8
R2701	1430778	Top	M	9	Resistor	10k	63mW	5%	0402R
R2900	1430778	Top	I	2	Resistor	10k	63mW	5%	0402R
R2901	1430778	Top	I	2	Resistor	10k	63mW	5%	0402R
R2902	1430726	Top	H	2	Resistor	100R	63mW	5%	0402R
R2903	1430873	Top	I	1	Resistor	27k	63mW	1%	0402R
R3000	1430770	Top	N	5	Resistor	4k7	63mW	5%	0402R
R4100	1430794	Top	K	7	Resistor	39k	63mW	5%	0402R
R4101	1430718	Top	L	7	Resistor	47R	63mW	5%	0402R
R4202	1430812	Top	F	11	Resistor	220k	63mW	5%	0402R
R4401	1430734	Top	D	9	Resistor	220R	63mW	5%	0402R
R4402	1430726	Top	D	8	Resistor	100R	63mW	5%	0402R
R4403	1430778	Top	E	8	Resistor	10k	63mW	5%	0402R
R4450	1430695	Bot.	G	10	Resistor	6R8	63mW	5%	0402R
R4451	1430695	Bot.	G	10	Resistor	6R8	63mW	5%	0402R
R4452	1430695	Bot.	G	10	Resistor	6R8	63mW	5%	0402R
R4453	1430695	Bot.	G	10	Resistor	6R8	63mW	5%	0402R
R4454	1430778	Top	F	8	Resistor	10k	63mW	5%	0402R
R4455	1430786	Top	F	8	Resistor	18k	63mW	5%	0402R
R4456	1430762	Top	F	6	Resistor	2k2	63mW	5%	0402R

Copyright © 2005 Nokia. All Rights Reserved.

Item	Code	Side	X	Y	Type	Description and value			
R4457	1430760	Top	F	6	Resistor	1k8	63mW	5%	0402R
R4458	1430778	Top	C	9	Resistor	10k	63mW	5%	0402R
R4459	1430754	Top	S	7	Resistor	1k0	63mW	5%	0402R
R4460	1430714	Top	S	7	Resistor	33R	63mW	5%	0402R
R4461	1430714	Top	S	7	Resistor	33R	63mW	5%	0402R
R4462	1430804	Top	R	7	Resistor	100k	63mW	5%	0402R
R4463	1430794	Top	F	8	Resistor	39k	63mW	5%	0402R
R4464	1430691	Bot.	E	10	Resistor	2R2	63mW	5%	0402R
R4465	1820039	Top	D	6	NTC RES	B=4050	47k	3%	0402_NTH5
R4466	1620043	Top	F	6	RES NETWORK	0W03 0804	4x100k	~	EXB28V_SR
R4467	1430804	Top	M	7	Resistor	100k	63mW	5%	0402R
R4468	1620057	Top	M	6	RES NETWORK	0W03 0804	4x47k	~	EXB28V_SR
R4469	1430794	Top	M	6	Resistor	39k	63mW	5%	0402R
R4470	1430794	Top	M	6	Resistor	39k	63mW	5%	0402R
R4471	1430754	Top	M	6	Resistor	1k0	63mW	5%	0402R
R4472	1430714	Bot.	F	11	Resistor	33R	63mW	5%	0402R
R4473	1430700	Top	C	7	Resistor	10R	63mW	5%	0402R
R4480	1430732	Bot.	G	10	Resistor	180R	63mW	5%	0402R
R4481	1430732	Bot.	G	10	Resistor	180R	63mW	5%	0402R
R4482	1430732	Bot.	H	10	Resistor	180R	63mW	5%	0402R
R4483	1430804	Bot.	G	10	Resistor	100k	63mW	5%	0402R
R4490	1430681	Top	F	6	Resistor	4R3	63mW	5%	0402R
R4491	1430681	Top	F	6	Resistor	4R3	63mW	5%	0402R
R4800	1620105	Top	F	8	RES NETWORK 4	2x2k2	63mW	~	MNR02
R4801	1430778	Top	I	6	Resistor	10k	63mW	5%	0402R
R4802	1430804	Top	E	8	Resistor	100k	63mW	5%	0402R
R4803	1430804	Top	G	9	Resistor	100k	63mW	5%	0402R
R4804	1430804	Top	F	7	Resistor	100k	63mW	5%	0402R
R4805	1430804	Top	G	9	Resistor	100k	63mW	5%	0402R
R4806	1430700	Top	E	8	Resistor	10R	63mW	5%	0402R

Copyright © 2005 Nokia. All Rights Reserved.

Item	Code	Side	X	Y	Type	Description and value			
R4807	1430706	Top	G	9	Resistor	15R	63mW	5%	0402R
R4808	1430710	Top	F	6	Resistor	22R	63mW	5%	0402R
R5000	1430770	Top	I	6	Resistor	4k7	63mW	5%	0402R
R5200	4129101	Top	Q	6	ASIP	EMIF04-MMC02F2	~	~	uBGA11
R5201	1430788	Top	Q	5	Resistor	22k	63mW	5%	0402R
R5202	1430804	Top	Q	5	Resistor	100k	63mW	5%	0402R
R5204	1430754	Top	Q	5	Resistor	1k0	63mW	5%	0402R
R6030	1430778	Top	N	9	Resistor	10k	63mW	5%	0402R
R6034	1430691	Top	N	7	Resistor	2R2	63mW	5%	0402R
R6039	1430790	Top	I	10	Resistor	27k	63mW	5%	0402R
R6040	1430740	Top	I	9	Resistor	330R	63mW	5%	0402R
R6042	1430790	Top	I	9	Resistor	27k	63mW	5%	0402R
R6043	1430752	Top	J	9	Resistor	820R	63mW	5%	0402R
R6044	1430760	Top	J	9	Resistor	1k8	63mW	5%	0402R
R7000	1430700	Bot.	D	8	Resistor	10R	63mW	5%	0402R
R7001	1430700	Bot.	A	8	Resistor	10R	63mW	5%	0402R
R7002	1430700	Bot.	C	6	Resistor	10R	63mW	5%	0402R
R7003	1430714	Bot.	B	9	Resistor	33R	63mW	5%	0402R
R7004	1430691	Bot.	B	9	Resistor	2R2	63mW	5%	0402R
R7005	1430681	Bot.	B	9	Resistor	4R3	63mW	5%	0402R
R7006	1430690	Bot.	D	9	jumper	0R	63mW		0402R
R7007	1430714	Bot.	D	9	Resistor	33R	63mW	5%	0402R
R7008	1430691	Bot.	D	9	Resistor	2R2	63mW	5%	0402R
R7009	1430690	Bot.	A	7	jumper 0402	0R	~		0402R
R7010	1430758	Bot.	E	3	Resistor	1k5	63mW	5%	0402R
R7011	1430690	Bot.	E	3	jumper	0R	~		0402R
R7100	1430700	Bot.	D	5	Resistor	10R	63mW	5%	0402R
R7101	1430746	Bot.	D	5	Resistor	560R	63mW	5%	0402R
R7200	1430774	Bot.	I	3	Resistor	6k8	63mW	5%	0402R
R7201	1430693	Bot.	I	6	Chipres	5R6	63mW	5%	0402R
R7202	1430754	Bot.	E	3	Resistor	1k0	63mW	5%	0402R

Copyright © 2005 Nokia. All Rights Reserved.

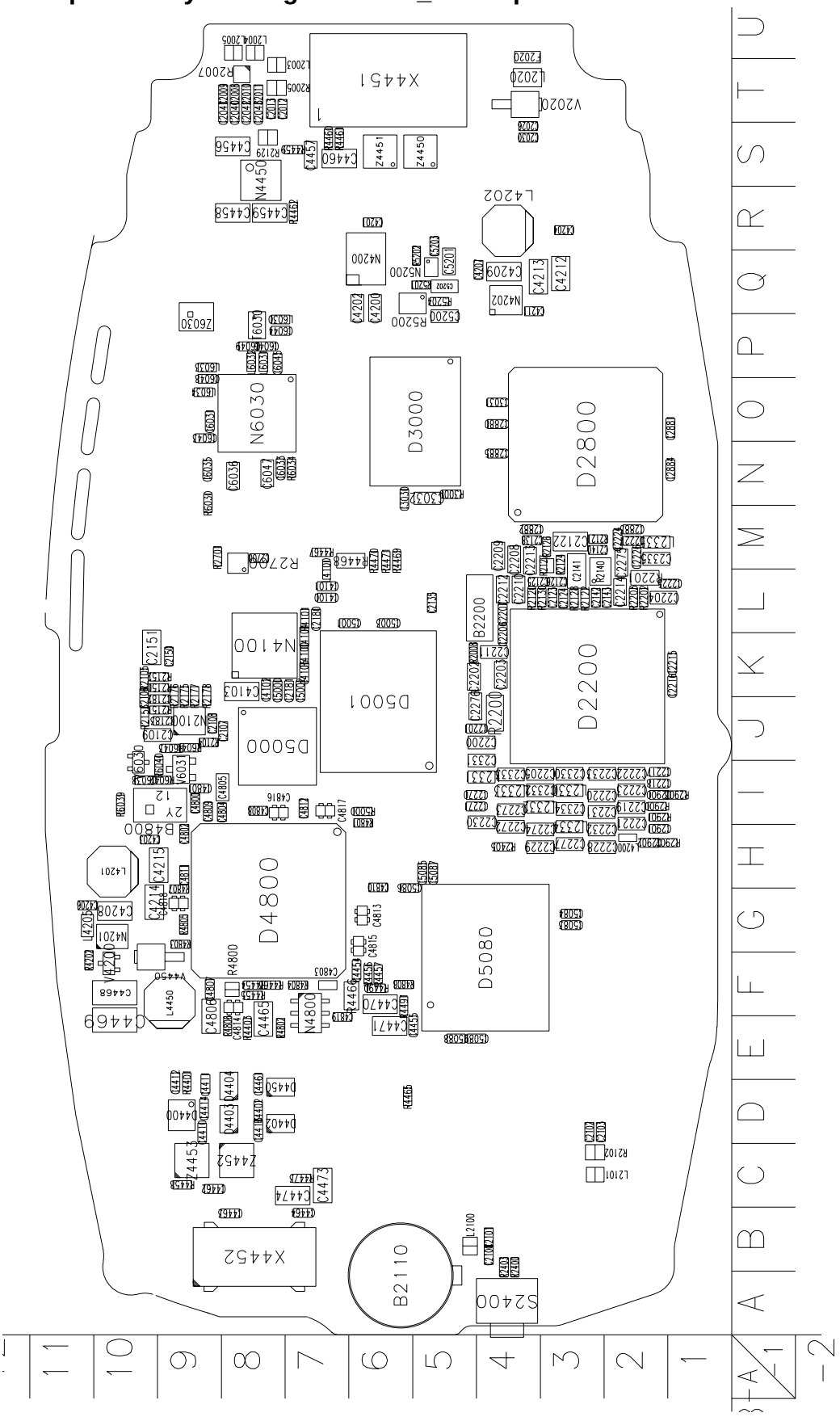
Item	Code	Side	X	Y	Type	Description and value			
R7203	1620505	Bot.	I	5	RES NETWORK	0W04 2DB ATT 0404	436R/ 11R6/436R	~	0404_R AC10
R7204	1430754	Bot.	H	6	Resistor	1k0	63mW	5%	0402R
R7205	1430337	Bot.	G	5	CHIPRES	9k1	~	1%	0603R
R7300	1430770	Bot.	G	1	Resistor	4k7	63mW	5%	0402R
R7301	1430772	Bot.	G	1	Resistor	5k6	63mW	5%	0402R
R7302	1620063	Bot.	G	4	RES NETWORK	4x100R	~	5%	MNR04
R7303	1430690	Bot.	H	2	jumper	0R	63mW		0402R
R7304	1430784	Bot.	H	1	Resistor	15k	63mW	5%	0402R
R7305	1620033	Bot.	H	3	RES NETWORK	2x5k6	0W06	~	0404_R
R7306	1620033	Bot.	H	2	RES NETWORK	2x5k6	0W06	~	0404_R
R7307	1430770	Bot.	E	3	Resistor	4k7	63mW	5%	0402R
R7308	1430780	Bot.	E	3	Resistor	12k	63mW	5%	0402R
R7309	1430770	Bot.	E	3	Resistor	4k7	63mW	5%	0402R
R7310	1430726	Bot.	F	3	Resistor	100R	63mW	5%	0402R
R7311	1430756	Bot.	F	3	Resistor	1k2	63mW	5%	0402R
R7312	1430726	Bot.	F	3	Resistor	100R	63mW	5%	0402R
S2400	5209001	Top	A	4	SIDE KEY	SM SW TACT	SPST 12V 50MA	~	EVQPU A02
T6030	4550267	Top	P	8	TRANSF BALUN	2400MHz	~	~	TRANS_ LDB213
T7000	4550223	Bot.	D	9	TRANSF BALUN	1800MHz 2x1.25	2x1.25	~	TRANS_ LDB15
T7100	3640427	Bot.	D	5	BALUN TRANS	1.9GHZ	1206 ~	~	TRANS_ LDB20
T7200	4550187	Bot.	I	5	TRANSF BALUN	3600MHZ	~	~	TRANS_ LDB213
V2020	4113721	Top	T	4	TVS DI	1PMT16AT	3 16V 175W	~	CASE_4 57
V4200	4211251	Top	F	10	MFET	2SK3019 N	~	~	SC_75A
V4450	4110457	Top	F	10	SCH DI	MBRM140T 3 40V 1A	~	~	CASE_4 57
V4451	4860105	Bot.	G	10	IRDA	1M152 SIR/ MIR 8PIN	~	~	TFDU51 02
V6030	4210401	Top	I	10	TR	2SA1774 P	~	~	SC75

Copyright © 2005 Nokia. All Rights Reserved.

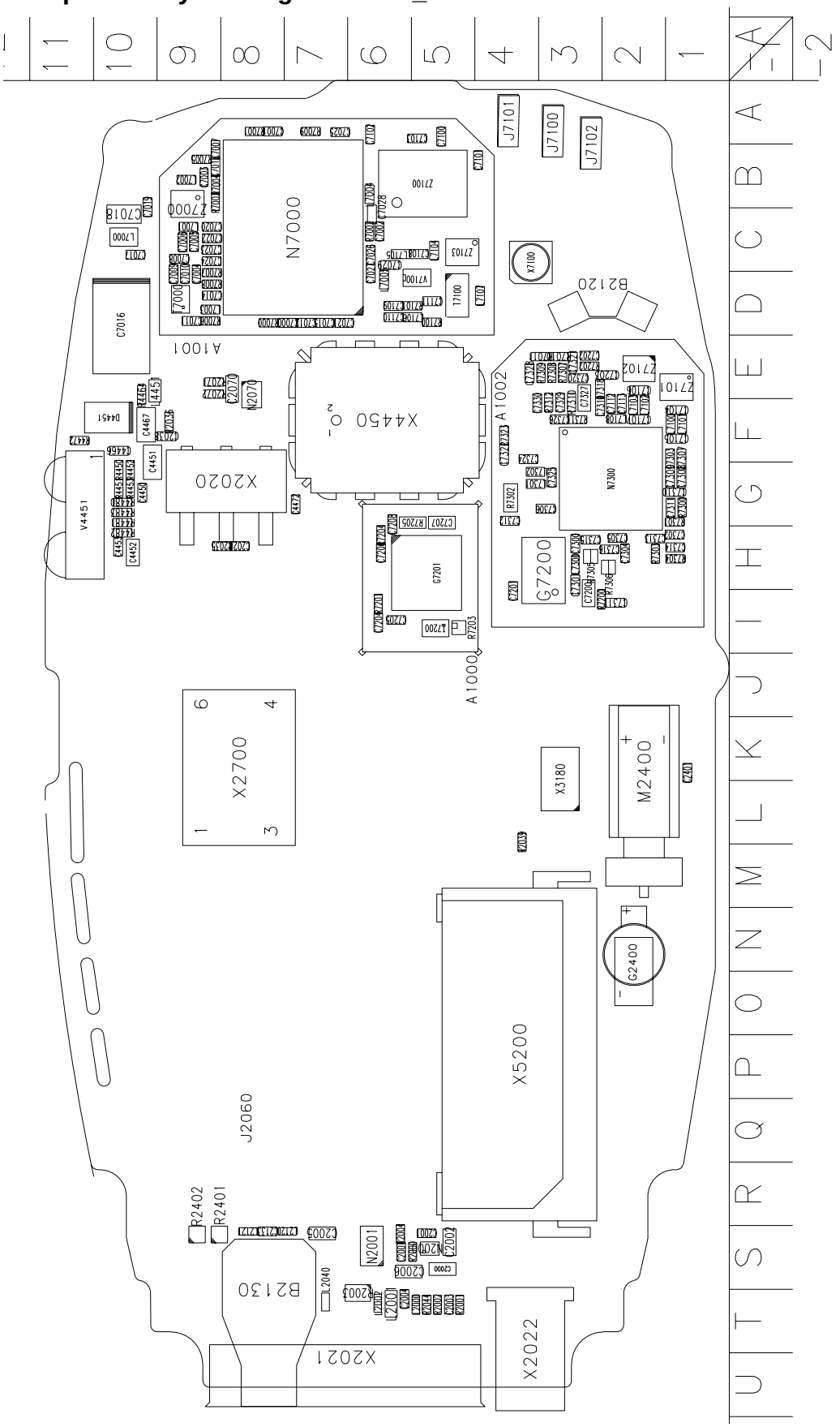
Item	Code	Side	X	Y	Type	Description and value			
V6031	4210066	Top	I	9	TR NPN	12V 35mA	~	~	SOT323
V7100	4210261	Bot.	D	5	TR	BGA428	~	~	SOT_36
X2020	5409255	Bot.	G	8	BATT.CON	3POL	12V 2A	H7	
X2021	5460061	Bot.	U	7	SYSTEM CONN.	14POL	~	~	
X2022	5400243	Bot.	T	4	CONN DC-JACK	3.5MM	3POL SPR	90DEG	
X2700	5402001	Bot.	K	8	SM SIM CONN	2X3POL	P2.54	H=1.6	
X4450	5409307	Bot.	F	6	CAMERA MOD. SOCKET	2X10POL SPR P1	~	~	
X4451	5469231	Top	T	6	SM CONN	2X10M P1.0	50V 1A		CPB5520_0302
X4452	5469219	Top	B	8	SM CONN	2X12F P0.4	30V 0.3A PCB/PCB	~	
X5200	5409295	Bot.	P	4	MMC CONN		~	~	T4_00373_210
X7100	5429021	Bot.	C	4	SM CONN	RF+SW	100V 1W	50R 2.2GHZ	CRS5001
Z4450	4129031	Top	S	5	ASIP	EMIF10-1K010F2	~	~	uBGA24
Z4451	4129031	Top	S	6	ASIP	EMIF10-1K010F2	~	~	uBGA24
Z4452	4129035	Top	C	8	ASIP	EMI FILTER	10-CHESD	~	uBGA25
Z4453	4129035	Top	C	9	ASIP	EMI FILTER	~	~	uBGA25
Z6030	4550265	Top	P	9	CER FILT	2.5X2.0	2441MHz	~	
Z7000	4511403	Bot.	B	9	SAW FILT	2.7DB 2.5X2	824-849MHz	~	
Z7100	4550263	Bot.	B	5	ANT SW	850/900/1800/1900	~	~	
Z7101	4511409	Bot.	E	1	SAW FILT	2.5X2.0MM	881.5MHz	~	
Z7102	4511413	Bot.	E	2	SAW FILT	2.5X2MM	1842.5MHz		
Z7103	4511405	Bot.	C	5	SAW FILT	2.5X2.0MM	1960MHz	~	

Copyright © 2005 Nokia. All Rights Reserved.

Component layout diagram v. hl9_15 - Top.



Component layout diagram v. hl9_15 - Bot.



COMPANY CONFIDENTIAL
Copyright © 2005 Nokia. All Rights Reserved.

[This page intentionally blank]

Copyright © 2005 Nokia. All Rights Reserved.